## **Reserve Study**

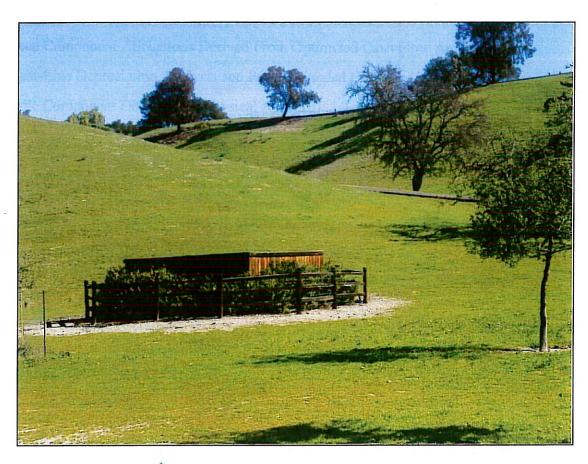
(Long Term Capital Replacement Plan) for

## Oak Trails Estates Mutual Water Company

#### February 2016

For the fiscal year beginning January 1, 2016

Santa Ynez, CA





**Stone Mountain Corporation** 

Hollister Professional Building - P.O. Box 1369 - Goleta, CA 93116-1369 ☎ 805-681-1575 FAX: 805-681-1577 E-mail: smc@west.net

Copyright © 1991-2016 Stone Mountain Corporation - All rights reserved..

## **Table of Contents**

| Introduction  | 1  |
|---|----|
| Executive Summary   | 2  |
| Summary of Assumptions  | 5  |
| Reserve Analysis Methodology  | 7  |
| Reserve Cash Flow Analysis Optimized Projection                         | 9  |
| Understanding Your Cash Flow Analysis                                   |    |
| Reserve Component Allocations Derived From Optimized Cash Flow Analysis | 17 |
| Straight-Line Depreciation Analysis and Percent Funded Estimate         | 19 |
| Reserve Component Description (Physical Analysis)                       | 21 |
| After Your Reserve Study is Prepared                                    |    |
| Assessment And Reserve Funding Disclosure Summary                       | 31 |

## Introduction

This reserve study for <u>Oak Trails Estates Mutual Water Company</u> utilizes cash flow analysis and straight-line depreciation methods in order to determine the recommended reserve funding for your budget. In addition, it provides your water company with the proper disclosures per California Civil Code 1365 and 1365.5. <u>Reserve studies are required every 3 years.</u> Note that water companies may or may not be subject to such requirements, but community association must adopt a "Reserve Funding Plan" at a Board meeting open to members per *Section 1363.05*.

There are six sections in this reserve study:

#### FINANCIAL ANALYSIS – Two types of financial analysis were performed:

> Cash Flow Analysis-- Optimal Reserve Funding Plan.

Cash Flow Analysis is the formal accounting method used to prove that future cash flows can fund future expenses. First, we do a cash flow analysis projection depicting your reserve income and expenses for the next 30 years assuming no special action is taken other than basic cost-of-living increases in annual reserve funding.

Then our proprietary SmartReserve<sup>TM</sup> software determines the optimal <u>reserve funding</u> <u>plan</u> for anticipated reserve expenses during the next 30 years. This *Optimized Cash Flow Analysis* shows a recommended annual reserve funding amount in which projected reserve income can properly fund projected reserve expenses.

> Straight-Line Funding Analysis.

The Straight-Line Depreciation and Percent Funded report utilizes straight-line segregated analysis to determine your water company's percent funded estimate (a measure of the strength of reserves relative to the depreciation of assets) – a required disclosure.

<u>GRAPHS</u> – Graphs facilitate visual interpretation of projected expenses versus reserve balances in the cash flow projections discussed above.

<u>ASSUMPTIONS</u> – Key assumptions used in the reserve analysis such as starting reserve balance, interest rate on reserve investment, tax rate on earned interest, etc., are documented.

**METHODOLOGY** – This section describes financial analysis methods utilized in this study.

<u>RESERVE COMPONENT DESCRIPTIONS - (PHYSICAL ANALYSIS)</u> – This section contains specific details for each reserve component, including measurements, description of each component, estimated useful life, remaining life, and current cost to replace.

<u>AFTER YOUR RESERVE STUDY IS PREPARED</u> – This section indicates what to do with the results of your reserve study so your water company can derive the most benefit from it.

<u>Disclaimer:</u> No representation is made that *actual* costs for future reserve expenditures will correspond closely to *estimated* costs presented herein. Contractor bids are known to vary significantly from one another. A reserve study is a *projection*, not a *prediction*. It is not intended to be a maintenance guide. Rather, it is a <u>financial planning document</u>.

## **Executive Summary**

Oak Trails Estates Mutual Water Company is a mutual water company having 72 shareholders (herein expressed as "Lots") and 22 identified reserve components to maintain. In 2012, removed the "60-hp Pump Motor Repl/Clean" line items because it no longer makes sense to replace just the pump motor and then a few years later replace the entire pump when the pump mechanism fails and not the motor. In the 2016 reserve study, the drilling of a new well was moved up to 2016 to "have the money ready to deploy" in the event of well failure. This was because alternate cash flow analyses were run that showed there wasn't a significant impact on the annual reserve funding if the well drilling was done in 2016, 2017 or 2018. If not needed then, can postpone it.

The following reserve analyses are presented:

- Optimized 30-Year Cash Flow Analysis determines an optimal <u>Reserve Funding Plan</u> to enable your water company to fund projected reserve expenses.
- <u>Straight Line Depreciation Analysis</u> calculates the "*Percent Funded Estimate*" a measure of strength of reserves. This is a required annual disclosure to all members.
- <u>30-Year Cash Flow Analysis Showing Current Funding Levels</u> this analysis illustrates how your water company would become over/underfunded if only simple inflationary increases are applied each year to current reserve funding.

#### 1. RESERVE FUNDING PLAN: Optimized 30-Year Cash Flow Analysis

The **Optimized 30-Year Cash Flow Analysis** funding plan indicates that your water company may fund reserves at a minimum of **\$62,616** per year -- followed by cost-of-living increases thereafter -- to adequately build reserves for future expenses.

The recommended first-year funding represents a decrease of \$-20.12/month per Lots in the reserve funding portion of your overall budget. However, the water company may continue funding at current (higher) levels if the Board wishes to improve the percent-funded estimate.

| FY 2016 annual reserve contribution                               | \$62,616/year  |
|---|----------------|
| (with annual increases thereafter - refer to cash flow analysis): | 2.00           |
| FY 2016 monthly reserve contribution:                             | \$5,218/month  |
| Change in monthly reserve contribution per owner:                 | \$-20.12/month |

SPECIAL ASSESSMENTS: May be necessary if there are variances in projected expenses or replacement scheduling. Or if capital expenses not listed or unknown to this analysis become apparent and if there are insufficient reserve funds to pay for them.

NOTE: The recommended reserve funding represents the amount that is needed when the water company adopts a reserve funding plan to pay for capital expense projects evenly over time. In

doing so, the depreciation of capital assets is distributed evenly over the years for all owners.

For some underfunded water companies, the rate of funding increases in forthcoming years must substantially exceed the rate of inflation in order to restore reserves to a healthy level. For the complete optimized cash flow projection and graphic depiction of future expenses versus reserves, refer to the optimized cash flow section in this report starting on Page 9.

This reserve funding plan should provide adequate reserves for projected reserve expenses for the next 30 years, barring unforeseen circumstances, and subject to the *Summary of Assumptions* documented herein. It is assumed that interest earned will be accrued *directly* to the reserve account, hence the recommended reserve funding level is *exclusive* of earned interest.

#### 2. STRAIGHT-LINE DEPRECIATION ANALYSIS

The Straight-Line Depreciation Analysis indicates that Oak Trails Estates Mutual Water Company has cash reserves representing 70.8% of depreciation of all reserve component assets. This percent-funded estimate indicates your water company is moderately funded for depreciation-to-date. However, if the optimized cash flow funding recommendation is followed, reserve income should be able to fund reserve expenses for the duration of the 30-year projection, assuming expenses occur as projected. In many cases, water companies can be less than "100% funded," yet can adequately fund future reserve expenses using the optimized cash flow analysis funding plan.

The **70.8**% "percent funded estimate" is the ratio of your \$388,021 reserve balance versus the \$548,395 life-to-date depreciation of your reserve components. The percent funded estimate is most often used as a measure of <u>strength of reserves relative to depreciation of assets</u>. If your water company would like to be 100% funded in the next fiscal year, it would need to make a FY 2016 reserve contribution of \$67,285, or \$5,607 per month, *plus* it must fund any remaining "Reserve Deficiency" – in this case, \$160,374. This is not always feasible for many water companies.

#### 3. CASH FLOW ANALYSIS: Projection Showing Current Funding Levels

In order to demonstrate what could happen if the water company continues reserve funding at the current rate of \$80,000 per year (plus \$1,478 interest on reserves after taxes) and with no special assessments, a cash flow analysis showing projected reserve income against projected future reserve expenses indicates the minimum resulting reserve balance for the 30-year projection would be \$174,009, occurring in the year 2016.

Continuation of current reserve funding – with annual inflationary increases hereafter – will cause your water company to be more than fully funded. The results of the current reserve funding projection are graphically depicted in the first bar-chart following the optimized cash flow projection. The second bar chart shows the *Optimized 30-Year Cash Flow Analysis* data, so you can essentially see the "before & after" results of cash flow optimization. Note that a copy of this "current funding cash flow projection" is <u>not</u> shown in this report to avoid confusion with the more-important <u>30-year optimized cash flow analysis</u> pages.

### **Reserve Analysis Summary Sheet**

Oak Trails Estates Mutual Water Company February 2016 -- For the fiscal year beginning January 1, 2016

#### **Cash Flow Analysis**

**Definition**: Cash Flow Analysis is the formal accounting method used to prove that future cash flows can fund future expenses. The two variations of the <u>same</u> cash flow analysis are:

- 1. The Current Budget Cash Flow Analysis forecasts future reserve balances assuming no special action is taken other than annual inflationary increases in reserve funding for the next 30 years.
- 2. The **Optimized Cash Flow Analysis** determines the <u>optimal</u> annual reserve contribution to fund projected expenses over the next 30 years.

| Findings  | Current Reserve<br>Budget | Optimized Cash<br>Flow - FY 2016<br>(recommended) |
|---|---------------------------|---|
| Annual reserve contribution:                                | \$80,000                  | \$62,616  |
| Monthly reserve contribution (total from all Lots):         | \$6,667                   | \$5,218   |
| Percent increase in reserve contribution:                   | 3.00%                     | -21.7%  |
| Average change in reserve funding per member:               | n/a                       | \$-20.12/month                                    |
| Average monthly reserve contribution per member:            | \$92.59/month             | \$72.47/month                                     |
| Minimum projected reserves (lowest balance occurs in 2016): | \$174,009                 | \$30,000  |
| Year in which lowest future reserve balance occurs:         | 2016                      | 2038  |
| Reserve funding increase or special assessment needed:      | No                        | No  |

#### **Straight-Line Depreciation Analysis**

**Definition**: Straight-Line Depreciation Analysis provides a snapshot of your water company's reserve component depreciation as of the current year. It includes a percent-funded estimate, life-to-date depreciation of all reserve components, estimated depreciation for the forthcoming year, and unfunded depreciation liability. It is not a 30-year long-term projection and does not account for additive effects of interest income on reserve accounts.

| Findings  | Straight-Line Depreciation      |
|---|---------------------------------|
| FY 2016 annual reserve depreciation (estimated 2016 depreciation):      | \$67,285                        |
| FY 2016 monthly reserve depreciation:                                   | \$5,607                         |
| FY 2016 monthly reserve depreciation per Lot:                           | \$78/month                      |
| Percent Funded Estimate (reserves / cumulative depreciation liability): | 70.8%                           |
| Life-to-date depreciation liability (100% Funded Balance):              | \$548,395                       |
| Reserve Deficiency (amount needed to achieve 100% funding):             | \$160,374 Total and \$2,227/Lot |

General Comment: The cash flow analysis often results in lower funding requirements and a more accurate modeling of future expense patterns.

## **Summary of Assumptions**

The following financial information is used in this reserve study:

| Number of shareholders units in this water company                        | 72 Lots   |
|---|-----------|
| Fiscal year-end reserve account balance (in some cases this is projected) | \$388,021 |
| Interest rate earned on reserve account(s)                                | 0.50%     |
| Tax rate on reserve account interest                                      | 23.84%    |
| Expected rate of inflation  | 3.00%     |
| Minimum acceptable future reserve account balance (in cash flow)          | \$30,000  |

#### **General Assumptions:**

- Financial information, maintenance history, quantities, and cost estimates provided by client are accurate and reliable. To the extent that information has been provided by the client, this reserve study is a compendium of that information for the client's use, not for the purposes of performing an audit, quality/forensic analysis, or background check of historical records. Other cost estimates are from local contractors or our cost database. This reserve study is not to be used as a stand-alone maintenance guide. Consult specific contractors instead.
- Recurring expenses, inflation, and interest rates will continue as projected.
- The analysis assumes that no unforeseen circumstances (acts of nature, lawsuits, vandalism, etc.) will cause a significant drawdown of reserves.
- The water company maintains sufficient comprehensive property insurance to protect its reserves from insurable risks such as fire, property liability, vandalism, etc.
- The water company plans to continue to maintain existing amenities.
- Life-of-project costs are not included in the scope of this study because these items are assumed to significantly outlast the 30-year reserve cash flow projection.
- For reserve study updates with site visit or updates without a site visit, the client has presumably deemed previously developed component quantities as accurate and reliable.
- There are no actual, potential, or perceived conflicts of interest between the reserve study preparer and the client or parties related to the client.

#### **Site-Specific Assumptions:**

• The following items are assumed to be funded via the water company's annual operating budget: Routine system repairs, including 4", 6", and 8" water line repairs based on the assumption that PVC lines underground do not deteriorate significantly over time and the likely expense will be localized repairs due to soil shifting or tree root encroachment.

- The backflow devices are homeowner responsibility and the testing thereof is paid for by the water company, but is not a reserve item because it is billed to the owners as part of the water service.
- The 2009 reserve study involved a complete update to water system component pricing by the
  watermaster. Many costs had increased significantly in recent years due to steep increases in
  steel and also for competition for well driller's services from the oil industry. New Well also
  drilled to replace Well #6.
- In 2012, removed the "60-hp Pump Motor Repl/Clean" line items because it no longer makes sense to replace just the pump motor and then a few years later replace the entire pump when the pump mechanism fails and not the motor.
- Reserve Account Balance: \$388,021 estimated as of the end of the current fiscal year. This is a projected amount based on most recent bank statements plus any reserve transfers until fiscal year end, minus anticipated reserve expenses until fiscal year end. If this reserve study is done after fiscal year end, the balance represents the cash held in reserve accounts as of the fiscal year's last statement. This starting reserve account balance is based on information provided by the client and was not audited.
- Interest rate on the reserve account(s) is **0.50**%. If interest rates change significantly in future years, or if reserves are placed in a long-term, higher interest-bearing account, another cash flow analysis should be prepared and reviewed by the Board.
- Tax rate on reserve account interest is 23.84%. Water companies that file an IRS Form 1120-H pay 30% taxes on interest earnings while those filing form 1120 (standard corporate form) generally pay 15%. In addition to Federal taxes, state taxes usually apply.
- Inflation rate to be applied to future replacement costs is 3.00%. In recent years, inflation as applied to water company costs has exceeded the typical CPI (Consumer Price Index) inflation rate cited by government sources. If the prevailing inflation rate changes significantly in future years, another cash flow analysis should be prepared and reviewed by the Board.
- Funding Goal Minimum acceptable future reserve account balance: \$30,000. The cash flow analysis optimization software determines the optimal annual reserve contribution such that all projected expenses are adequately funded, while always maintaining at least \$30,000 in reserves. When this threshold dollar amount is greater than zero, this minimum future projected balance is essentially a contingency to allow for unforeseen expenses and is referred to as "threshold funding."

## **Reserve Analysis Methodology**

A reserve analysis is a projection of future reserve expenditures versus reserve balance accompanied by a reserve funding recommendation. Two different methods are provided in this reserve study:

- Cash Flow Analysis (using component pooling)
- Straight-Line Depreciation Analysis (segregated components).

The methods of calculation and the advantages of each type of analysis are discussed herein.

#### Cash Flow Analysis Method

The traditional accounting method used to prove that future income can adequately fund future expenses is a *cash flow analysis*. A cash flow analysis provides detailed long-term projections of future reserve balances and should include the following realistic factors:

- *Inflation* as applied to future reserve expenses
- Interest earned on reserve account
- Tax rate on earned interest.

Because inflation, interest, and tax rates fluctuate from year to year, it is prudent to update the reserve cash flow analysis yearly with recent rates.

The 30-year cash flow analysis in this reserve study is based on the *component pooling method*. A "reserve component" is a water company asset (such as roofing, paving, etc.) that the water company is obligated to maintain with reserve funds.

The component pooling method simply involves "pooling" or summing the costs to repair or replace all components in each year for which such expenditures are scheduled. The aggregate component cost for each future year is then multiplied by an inflation factor to determine the total future yearly reserve expense.

Once the annual inflation-adjusted costs are totaled for each year, the reserve expenses are reconciled against reserve income and after-tax interest earnings to yield a reserve balance at the end of each year in the projection. Future years showing a reserve deficit can be pinpointed by examining the bottom line ("Reserve account balance at end of year") of the cash flow analysis, or by viewing the cash flow graph projections. For a line-by-line description of the cash flow analysis, refer to the "Understanding Your Cash Flow Analysis" section in this study.

#### Straight-Line Depreciation Analysis Method

The Straight-Line Depreciation method (also known as the *Component Method*) is a more simplistic snapshot of a water company's reserve situation in the current year. It includes the following:

- Cumulative Depreciation Liability of reserve components to-date. This is the sum of life-to-date depreciation liabilities for all reserve components using the straight-line depreciation method.
- Expected Depreciation of reserve components in the forthcoming year, in other words, the forthcoming year's depreciation funding recommendation using straight-line depreciation analysis (e.g. if a component costs \$10,000 to replace and it has a 10-year life, the depreciation liability for each year is \$1,000).
- *Percent-Funded Estimate* the ratio of cumulative depreciation relative to current reserve balance. This estimate gives you a measure of the strength of reserves relative to depreciation of assets.
- *Unfunded Liability (Deficit)* the portion of reserve component depreciation (cumulative depreciation) for which there are no reserve funds. For example, if the Cumulative Depreciation Liability for all reserve components is \$100,000 as of the date of the study and there is \$60,000 in reserves, the *Unfunded Liability* is \$40,000.

It is important to note that the Straight-Line Depreciation method is *not* a long-term projection like a cash flow analysis. Rather, it simply shows cumulative depreciation-to-date and depreciation for the forthcoming year. A significant finding of the Straight-Line Depreciation method is the Percent-Funded Estimate.

#### **Advantages of Each Analysis Method**

While the straight-line method is conceptually easier to understand than the component pooling method, some straight-line implementations fail to incorporate the effects of inflation on future costs or earned interest on reserve account funds.

The cash flow pooling method is generally regarded as a more accurate way to model future expense patterns and is preferred because it accounts for contributions from reserve account investment income. It often results in a lower recommended reserve funding recommendation than the straight-line method. However, there are unusual cases where the cash flow method can result in a higher recommended reserve contribution.

Your Board of Directors should decide which method to use based on their long-term investment strategy (conservative or non-conservative), your CPA's recommendations, and applicable laws and your CC&R's. Both types of analysis (component pooling-cash flow analysis and straight-line segregated) are provided in this reserve study.

## Reserve Cash Flow Analysis Optimized Projection

The following pages contain an *optimized* reserve cash flow analysis where the <u>initial</u> optimal reserve contribution of **\$62,616** per year has been determined by software (using a binary search method) such that future reserve balances will adequately fund anticipated expenses for the 30-year duration of this projection.

Once the optimal reserve funding plan is determined, the annual rate of increase in funding stabilizes with 3.00% cost of living (inflationary) increases for subsequent years in the remainder of the projection. In some cases, the optimal funding represents a *reduction* from current funding levels.

**RECOMMENDED ANNUAL RESERVE FUNDING**: For Oak Trails Estates Mutual Water Company, the Optimized 30-Year Cash Flow Analysis funding plan indicates that your water company may fund reserves at a minimum of \$62,616 per year -- followed by cost-of-living increases thereafter -- to adequately build reserves for future expenses

The recommended first-year funding represents a decrease of \$-20.12/month per Lot in the reserve funding portion of your overall budget.

**SPECIAL ASSESSMENTS:** May be necessary if there are variances in projected expenses or replacement scheduling. Or if capital expenses not listed or unknown to this analysis become apparent and if there are insufficient reserve funds to pay for them.

Notice how the annual reserve expenses and year-end reserve account balance amounts in the *Optimized Cash Flow Analysis* correspond to the bars in the lower graph on the bar charts page shown immediately following the cash flow analysis pages.

For a detailed description of the cash flow analysis refer to pages following the cash flow analysis reports titled *Understanding Your Cash Flow Analysis*.

Note: A reserve cash flow analysis is *not a prediction* of future events. Rather, it is a *projection* of anticipated future events. Actual timing and replacement costs may vary.

| RESERVE<br>COMPONENTS                     | Estimated<br>Useful                | Estimated<br>Remaining | Estimated Current Cost | Fiscal Year<br>Beginning   |
|---|------------------------------------|------------------------|------------------------|--|
| COMPONENTS                                | Life (years)                       | Life (years)           | to Replace             | Jan 1, 2016  |
|   | 0                                  |                        |                        |  |
| W E L L # 2                               |                                    |                        |                        |  |
| Well #2: 30-hp Pump Replace 10/14         | 6                                  | 4                      | \$20,000               |  |
| Well #2: Meter Rebuild 4/13               | 7                                  | 4                      | \$1,000                |  |
| Well #2: Hypo-Chlorinator 7/12            | 4                                  | 0                      | \$2,200                | \$2,200  |
| WELL#5                                    |                                    |                        |                        |  |
| Well #5: 60-hp Pump Replace 8/11          | 6                                  | 0                      | \$44,000               | \$44,000   |
| Well #5: Meter Rebuild 4/13               | 7                                  | 4                      | \$1,000                |  |
| Well #5: Hypo-Chlorinator 9/14            | 4                                  | 2                      | \$2,200                |  |
| WELL 'A' (#6) New Well - May '09          |                                    |                        |                        | · · · · · · · · · · · · · · · · · · ·  |
| Well #6: 60-hp Pump Replace 8/14          | 6                                  | 4                      | \$44,000               | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |
| Well #6: Meter Rebuild 5/09               | 7                                  | 0                      | \$1,000                | \$1,000  |
| Well #6: Hypo-Chlorinator 10/14           | 4                                  | 2                      | \$2,200                | + 1,000  |
| CISTERNS(7)                               |                                    |                        |                        |  |
| Cisterns - Clean 7/02                     | 15                                 | 1                      | \$7,000                |  |
| COMMUNICATION SYSTEMS                     |                                    |                        | 4.,000                 |  |
| Cisterns - Probe 3/11                     | 4                                  | 0                      | \$1,500                | \$1,500  |
| Radio System Hardware 5/13                | 10                                 | 7                      | \$28,500               | Ψ1,000   |
| Alarm Agent 4/09                          | 7                                  | 0                      | \$4,500                | \$4,500  |
| FUTURE WELL REPLACEMENT                   |                                    |                        | Ψ 1,000                | ψ1,000   |
| Drill & Install New Well 'A' (was #2)     | 30                                 | 1                      | \$225,000              | \$225,000  |
| Drill & Install New Well 'B' (was #5)     | 30                                 | 15                     | \$273,180              | Ψ223,000   |
| Drill & Install New Well 'C' (was #6)     | 30                                 | 22                     | \$273,180              |  |
| WELL ENCLOSURE FENCING                    |                                    |                        | φ270,100               |  |
| Well #2, #4, #5 - Wood Fencing            | 10                                 | 1                      | \$7,330                |  |
| Well #2, #4, #5 - Split Rail Fence        | 10                                 | 1                      | \$5,440                | The partie of the parties of the par |
| MISCELLANEOUS                             | 10                                 |                        | ψυ,στυ                 |  |
| Fire Hydrants (15) - Replace              | 1                                  | 0                      | \$6,000                | \$6,000  |
| Shutoff Valves                            | 1                                  | 0                      | \$5,000                | \$5,000  |
| Residential Water Meters                  | 1                                  | 0                      | \$2,250                |  |
| Cistern Access Road Chip Seal 12/12       | 6                                  | 0                      | \$4,040                | \$2,250<br>\$4,040   |
| Inflation factor applied each year        |                                    |                        | Ψ1,0-10                | 1.000  |
| Estimated total reserve expense           | (Costs adjust                      | ed for Inflatio        | n)                     | \$295,490  |
|   |                                    |                        | ·                      |  |
|   | *                                  |                        | ĺ                      |  |
| CAOULEI OW FOREOACTO                      |                                    |                        |                        |  |
| CASH FLOW FORECASTS                       | DECOMME                            | UDED                   |                        | #00.010  |
| Annual reserve funding Special Assessment | RECOMME                            | NDED                   |                        | \$62,616   |
| After-tax interest earnings               | (on reserve                        | account)               |                        | \$1,478  |
| tax morest darinings                      | Tou logelye                        | accounty               | +                      | ψ1,470   |
| Gross reserve account income              |                                    |                        |                        | \$64,094   |
| Annual reserve expense                    |                                    |                        |                        |  |
| Net annual reserve income                 | (reserve expense - reserve income) |                        |                        |  |
| Reserve Acct - Beginning of year          |                                    |                        |                        | (\$231,396)<br>\$388,021   |
| Dogowa Account End of vone                |                                    |                        |                        |  |
| Reserve Account - End of year             |                                    |                        |                        | \$156,625  |

| RESERVE<br>COMPONENTS                 | Fiscal Year<br>Beginning in<br>2017 | Fiscal Year<br>Beginning in<br>2018 | Fiscal Year<br>Beginning in<br>2019     | Fiscal Year<br>Beginning in<br>2020 |
|---------------------------------------|-------------------------------------|-------------------------------------|---|-------------------------------------|
| WELL#2                                |                                     |                                     |   |                                     |
|                                       |                                     |                                     |   |                                     |
| Well #2: 30-hp Pump Replace 10/14     |                                     |                                     |   | \$22,510                            |
| Well #2: Meter Rebuild 4/13           |                                     |                                     |   | \$1,126                             |
| Well #2: Hypo-Chlorinator 7/12        |                                     |                                     |   | \$2,476                             |
| WELL#5                                |                                     |                                     |   |                                     |
| Well #5: 60-hp Pump Replace 8/11      |                                     |                                     |   |                                     |
| Well #5: Meter Rebuild 4/13           |                                     |                                     |   | \$1,126                             |
| Well #5: Hypo-Chlorinator 9/14        |                                     | \$2,334                             |   |                                     |
| W E L L 'A' (# 6) New Well - May '09  |                                     |                                     |   |                                     |
| Well #6: 60-hp Pump Replace 8/14      |                                     |                                     |   | \$49,522                            |
| Well #6: Meter Rebuild 5/09           |                                     |                                     | *************************************** |                                     |
| Well #6: Hypo-Chlorinator 10/14       |                                     | \$2,334                             |   |                                     |
| CISTERNS (7)                          |                                     |                                     |   |                                     |
| Cisterns - Clean 7/02                 | \$7,210                             |                                     |   |                                     |
| COMMUNICATION SYSTEMS                 |                                     |                                     |   | 2                                   |
| Cisterns - Probe 3/11                 |                                     |                                     |   | \$1,688                             |
| Radio System Hardware 5/13            |                                     |                                     |   | φ1,000                              |
| Alarm Agent 4/09                      |                                     |                                     |   |                                     |
| FUTURE WELL REPLACEMENT               |                                     |                                     |   |                                     |
| Drill & Install New Well 'A' (was #2) |                                     |                                     |   |                                     |
| Drill & Install New Well 'B' (was #5) |                                     |                                     |   |                                     |
| Drill & Install New Well 'C' (was #6) |                                     |                                     |   |                                     |
| WELL ENCLOSURE FENCING                |                                     |                                     |   |                                     |
|                                       | Ф7 FF0                              |                                     |   |                                     |
| Well #2, #4, #5 - Wood Fencing        | \$7,550                             |                                     |   |                                     |
| Well #2, #4, #5 - Split Rail Fence    | \$5,603                             |                                     |   |                                     |
| MISCELLANEOUS                         |                                     |                                     |   |                                     |
| Fire Hydrants (15) - Replace          | \$6,180                             | \$6,365                             | \$6,556                                 | \$6,753                             |
| Shutoff Valves                        | \$5,150                             | \$5,305                             | \$5,464                                 | \$5,628                             |
| Residential Water Meters              | \$2,318                             | \$2,387                             | \$2,459                                 | \$2,532                             |
| Cistern Access Road Chip Seal 12/12   |                                     |                                     |   |                                     |
| Inflation factor applied each year    | 1.030                               | 1.061                               | 1.093                                   | 1.126                               |
| Estimated total reserve expense       | \$34,011                            | \$18,725                            | \$14,479                                | \$93,361                            |
| CASH FLOW FORECASTS                   |                                     |                                     |   |                                     |
| Annual reserve funding                | \$64,495                            | \$66,430                            | \$68,422                                | \$70,475                            |
| Special Assessment                    | Ψ04,433                             | ψ00,430                             | \$00,422                                | \$70,475                            |
| After-tax interest earnings           | \$596                               | \$715                               | \$899                                   | \$1,108                             |
| Gross reserve account income          | <b>PRE 001</b>                      | PC7 144                             | \$00,000                                | Φ74 F00                             |
| Annual reserve expense                | \$65,091<br>\$34,011                | \$67,144<br>\$18,725                | \$69,322                                | \$71,583                            |
| Net annual reserve income             | \$34,011                            | \$48,419                            | \$14,479<br>\$54,843                    | \$93,361                            |
| Reserve Acct - Beginning of year      | \$156,625                           | \$187,705                           | \$236,124                               | (\$21,778)<br>\$290,967             |
| Reserve Account - End of year         | \$187,705                           | \$236,124                           | \$290,967                               | \$269,189                           |

| RESERVE<br>COMPONENTS  | Fiscal Year<br>Beginning in<br>2021 | Fiscal Year<br>Beginning in<br>2022 | Fiscal Year<br>Beginning in<br>2023 | Fiscal Year<br>Beginning in<br>2024     |
|--|-------------------------------------|-------------------------------------|-------------------------------------|---|
| W E L L # 2  |                                     |                                     |                                     |   |
| Well #2: 30-hp Pump Replace 10/14                            |                                     |                                     |                                     |   |
| Well #2: Meter Rebuild 4/13                                  |                                     |                                     |                                     |   |
| Well #2: Hypo-Chlorinator 7/12                               |                                     |                                     |                                     | <u></u>                                 |
| W E L L # 5  |                                     |                                     |                                     | \$2,787                                 |
|  |                                     | ØE0 500                             |                                     |   |
| Well #5: 60-hp Pump Replace 8/11                             |                                     | \$52,538                            |                                     |   |
| Well #5: Meter Rebuild 4/13                                  |                                     | Ф0.007                              |                                     |   |
| Well #5: Hypo-Chlorinator 9/14                               |                                     | \$2,627                             |                                     | <del></del>                             |
| WELL 'A' (#6) New Well - May '09                             | -                                   |                                     |                                     |   |
| Well #6: 60-hp Pump Replace 8/14                             |                                     |                                     |                                     |   |
| Well #6: Meter Rebuild 5/09                                  |                                     |                                     | \$1,230                             |   |
| Well #6: Hypo-Chlorinator 10/14                              |                                     | \$2,627                             |                                     |   |
| CISTERNS(7)  |                                     |                                     |                                     |   |
| Cisterns - Clean 7/02  |                                     |                                     |                                     |   |
| COMMUNICATION SYSTEMS  |                                     |                                     |                                     |   |
| Cisterns - Probe 3/11  |                                     |                                     |                                     | \$1,900                                 |
| Radio System Hardware 5/13                                   |                                     |                                     | \$35,051                            |   |
| Alarm Agent 4/09   |                                     |                                     | \$5,534                             |   |
| FUTURE WELL REPLACEMENT                                      |                                     |                                     |                                     |   |
| Drill & Install New Well 'A' (was #2)                        |                                     |                                     |                                     |   |
| Drill & Install New Well 'B' (was #5)                        |                                     |                                     |                                     |   |
| Drill & Install New Well 'C' (was #6)                        |                                     |                                     |                                     |   |
| WELL ENCLOSURE FENCING                                       |                                     |                                     |                                     | *************************************** |
| Well #2, #4, #5 - Wood Fencing                               |                                     |                                     |                                     |   |
| Well #2, #4, #5 - Split Rail Fence                           |                                     |                                     |                                     |   |
| MISCELLANEOUS  |                                     |                                     |                                     |   |
| Fire Hydrants (15) - Replace                                 | \$6,956                             | \$7,164                             | \$7,379                             | ¢7 601                                  |
| Shutoff Valves   |                                     |                                     |                                     | \$7,601                                 |
|  | \$5,796                             | \$5,970                             | \$6,149                             | \$6,334                                 |
| Residential Water Meters Cistern Access Road Chip Seal 12/12 | \$2,608                             | \$2,687                             | \$2,767                             | \$2,850                                 |
| Inflation factor applied each year                           | 1.159                               | \$4,824  <br>1.194                  | 1.230                               | 1.267                                   |
| Estimated total reserve expense                              | \$15,360                            | \$78,437                            | \$58,110                            | \$21,472                                |
| Louinated total receive expense                              | Ψ13,500                             | Ψ10,401                             | Ψ30,110                             | Ψ21,-+72                                |
| CASH FLOW FORECASTS  |                                     |                                     |                                     |   |
| Annual reserve funding                                       | \$72,589                            | \$74,767                            | \$77,010                            | \$79,320                                |
| Special Assessment   |                                     |                                     |                                     |   |
| After-tax interest earnings                                  | \$1,025                             | \$1,247                             | \$1,238                             | \$1,314                                 |
| Gross reserve account income                                 | \$73,614                            | \$76,014                            | \$78,248                            | \$80,635                                |
| Annual reserve expense                                       | \$15,360                            | \$78,437                            | \$58,110                            | \$21,472                                |
| Net annual reserve income                                    | \$58,254                            | (\$2,423)                           | \$20,138                            | \$59,163                                |
| Reserve Acct - Beginning of year                             | \$269,189                           | \$327,443                           | \$325,020                           | \$345,158                               |
| Reserve Account - End of year                                | \$327,443                           | \$325,020                           | \$345,158                           | \$404,321                               |

| RESERVE<br>COMPONENTS  | Fiscal Year<br>Beginning in<br>2025 | Fiscal Year<br>Beginning in<br>2026 | Fiscal Year<br>Beginning in<br>2027 | Fiscal Year<br>Beginning in<br>2028 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| W E L L # 2  |                                     |                                     |                                     |                                     |
| Well #2: 30-hp Pump Replace 10/14                                  |                                     | \$26,878                            |                                     |                                     |
| Well #2: Meter Rebuild 4/13  |                                     |                                     | \$1,384                             |                                     |
| Well #2: Hypo-Chlorinator 7/12                                     |                                     |                                     |                                     | \$3,137                             |
| WELL#5   |                                     |                                     |                                     |                                     |
| Well #5: 60-hp Pump Replace 8/11                                   |                                     |                                     |                                     | \$62,733                            |
| Well #5: Meter Rebuild 4/13  |                                     |                                     | \$1,384                             | , ,,,,,,                            |
| Well #5: Hypo-Chlorinator 9/14                                     |                                     | \$2,957                             | Ψ.,σσ.,                             |                                     |
| WELL 'A' (#6) New Well - May '09                                   | ***                                 | <del>+</del> 2,00.                  |                                     |                                     |
| Well #6: 60-hp Pump Replace 8/14                                   |                                     | \$59,132                            |                                     |                                     |
| Well #6: Meter Rebuild 5/09  |                                     | \$55,102                            |                                     |                                     |
| Well #6: Hypo-Chlorinator 10/14                                    |                                     | \$2,957                             |                                     |                                     |
| CISTERNS(7)  |                                     | Ψ2,557                              |                                     |                                     |
| Cisterns - Clean 7/02  |                                     |                                     |                                     |                                     |
| COMMUNICATION SYSTEMS  |                                     |                                     |                                     | -                                   |
| Cisterns - Probe 3/11  |                                     |                                     |                                     | <b>CO 100</b>                       |
| Radio System Hardware 5/13   |                                     |                                     |                                     | \$2,139                             |
| Alarm Agent 4/09   |                                     |                                     |                                     |                                     |
| FUTURE WELL REPLACEMENT  |                                     |                                     |                                     |                                     |
|  |                                     |                                     |                                     |                                     |
| Drill & Install New Well 'A' (was #2)                              |                                     |                                     |                                     |                                     |
| Drill & Install New Well 'B' (was #5)                              |                                     |                                     |                                     |                                     |
| Drill & Install New Well 'C' (was #6)                              |                                     |                                     |                                     |                                     |
| WELL ENCLOSURE FENCING   |                                     |                                     |                                     |                                     |
| Well #2, #4, #5 - Wood Fencing                                     |                                     |                                     | \$10,146                            |                                     |
| Well #2, #4, #5 - Split Rail Fence                                 |                                     |                                     | \$7,530                             |                                     |
| MISCELLANEOUS  |                                     |                                     |                                     |                                     |
| Fire Hydrants (15) - Replace                                       | \$7,829                             | \$8,063                             | \$8,305                             | \$8,555                             |
| Shutoff Valves   | \$6,524                             | \$6,720                             | \$6,921                             | \$7,129                             |
| Residential Water Meters   | \$2,936                             | \$3,024                             | \$3,115                             | \$3,208                             |
| Cistern Access Road Chip Seal 12/12                                |                                     |                                     |                                     | \$5,760                             |
| Inflation factor applied each year Estimated total reserve expense | 1.305                               | 1.344                               | 1.384                               | 1.426                               |
| Estimated total reserve expense                                    | \$17,289                            | \$109,731                           | \$38,785                            | \$92,661                            |
| CASH FLOW FORECASTS  |                                     |                                     |                                     |                                     |
| Annual reserve funding   | \$81,700                            | \$84,151                            | \$86,675                            | \$89,276                            |
| Special Assessment   |                                     |                                     |                                     |                                     |
| After-tax interest earnings  | \$1,540                             | \$1,791                             | \$1,700                             | \$1,889                             |
| Gross reserve account income                                       | \$83,240                            | \$85,942                            | \$88,376                            | \$91,165                            |
| Annual reserve expense   | \$17,289                            | \$109,731                           | \$38,785                            | \$92,661                            |
| Net annual reserve income  | \$65,951                            | (\$23,789)                          | \$49,591                            | (\$1,496)                           |
| Reserve Acct - Beginning of year                                   | \$404,321                           | \$470,271                           | \$446,482                           | \$496,073                           |
| Reserve Account - End of year                                      | \$470,271                           | \$446,482                           | \$496,073                           | \$494,577                           |

| RESERVE<br>COMPONENTS  | Fiscal Year<br>Beginning in<br>2029 | Fiscal Year<br>Beginning in<br>2030 | Fiscal Year<br>Beginning in<br>2031 | Fiscal Year<br>Beginning in<br>2032 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| WELL#2   |                                     |                                     |                                     |                                     |
| Well #2: 30-hp Pump Replace 10/14                            | <del> </del>                        |                                     |                                     | \$32,094                            |
| Well #2: Meter Rebuild 4/13                                  |                                     |                                     |                                     | ψυΣ,υυ-                             |
| Well #2: Hypo-Chlorinator 7/12                               |                                     |                                     |                                     | \$3,530                             |
| WELL#5   |                                     |                                     |                                     | ψυ,υυς                              |
| Well #5: 60-hp Pump Replace 8/11                             |                                     |                                     |                                     |                                     |
| Well #5: Meter Rebuild 4/13                                  |                                     |                                     |                                     |                                     |
| Well #5: Hypo-Chlorinator 9/14                               |                                     | \$3,328                             |                                     |                                     |
| WELL 'A' (# 6) New Well - May '09                            |                                     | φ3,320                              |                                     |                                     |
|  |                                     |                                     |                                     | Ф <b>7</b> 0.007                    |
| Well #6: 60-hp Pump Replace 8/14 Well #6: Meter Rebuild 5/09 |                                     | <b>04 E40</b>                       |                                     | \$70,607                            |
|  |                                     | \$1,513                             |                                     | <del></del>                         |
| Well #6: Hypo-Chlorinator 10/14                              |                                     | \$3,328                             |                                     |                                     |
| CISTERNS(7)  |                                     |                                     |                                     |                                     |
| Cisterns - Clean 7/02  |                                     |                                     |                                     | \$11,233                            |
| COMMUNICATION SYSTEMS  |                                     |                                     |                                     |                                     |
| Cisterns - Probe 3/11  |                                     |                                     |                                     | \$2,407                             |
| Radio System Hardware 5/13                                   |                                     |                                     |                                     |                                     |
| Alarm Agent 4/09   |                                     | \$6,807                             |                                     |                                     |
| FUTURE WELL REPLACEMENT                                      |                                     |                                     |                                     |                                     |
| Drill & Install New Well 'A' (was #2)                        | 3. 3.3.7.2. 3.3.2.2. 3.3.2.2        |                                     |                                     |                                     |
| Drill & Install New Well 'B' (was #5)                        |                                     |                                     | \$425,606                           |                                     |
| Drill & Install New Well 'C' (was #6)                        |                                     |                                     |                                     |                                     |
| WELL ENCLOSURE FENCING                                       |                                     |                                     |                                     |                                     |
| Well #2, #4, #5 - Wood Fencing                               |                                     |                                     |                                     |                                     |
| Well #2, #4, #5 - Split Rail Fence                           |                                     |                                     |                                     |                                     |
| MISCELLANEOUS  |                                     |                                     |                                     |                                     |
| Fire Hydrants (15) - Replace                                 | \$8,811                             | \$9,076                             |                                     | 1,                                  |
| Shutoff Valves   | \$7,343                             | \$7,563                             | \$7,790                             | \$8,024                             |
| Residential Water Meters                                     | \$3,304                             | \$3,403                             | \$3,505                             | \$3,611                             |
| Cistern Access Road Chip Seal 12/12                          | ψ5,501                              | φο, του                             | φο,σσο                              | φοιστι                              |
| Inflation factor applied each year                           | 1.469                               | 1.513                               | 1.558                               | 1.605                               |
| Estimated total reserve expense                              | \$19,458                            | \$35,018                            | \$436,901                           | \$131,506                           |
|  |                                     |                                     |                                     |                                     |
| CASH FLOW FORECASTS  |                                     |                                     |                                     |                                     |
| Annual reserve funding                                       | \$91,954                            | \$94,713                            | \$97,554                            | \$100,481                           |
| Special Assessment   |                                     |                                     |                                     |                                     |
| After-tax interest earnings                                  | \$1,883                             | \$2,167                             | \$2,402                             | \$1,119                             |
| Gross reserve account income                                 | \$93,837                            | \$96,879                            | \$99,956                            | \$101,600                           |
| Annual reserve expense                                       | \$19,458                            | \$35,018                            | \$436,901                           | \$131,506                           |
| Net annual reserve income                                    | \$74,379                            | \$61,861                            | (\$336,945)                         | (\$29,906)                          |
| Reserve Acct - Beginning of year                             | \$494,577                           | \$568,956                           | \$630,817                           | \$293,873                           |
| Reserve Account - End of year                                | \$568,956                           | \$630,817                           | \$293,873                           | \$263,966                           |

| RESERVE<br>COMPONENTS  | Fiscal Year<br>Beginning in<br>2033 | Fiscal Year<br>Beginning in<br>2034 | Fiscal Year<br>Beginning in<br>2035 | Fiscal Year<br>Beginning in<br>2036 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|  |                                     |                                     |                                     |                                     |
| WELL#2   |                                     |                                     |                                     |                                     |
| Well #2: 30-hp Pump Replace 10/14                                      |                                     |                                     |                                     |                                     |
| Well #2: Meter Rebuild 4/13  |                                     | \$1,702                             |                                     |                                     |
| Well #2: Hypo-Chlorinator 7/12   |                                     |                                     |                                     | \$3,973                             |
| WELL#5   |                                     |                                     |                                     |                                     |
| Well #5: 60-hp Pump Replace 8/11                                       |                                     | \$74,907                            |                                     |                                     |
| Well #5: Meter Rebuild 4/13  |                                     | \$1,702                             |                                     |                                     |
| Well #5: Hypo-Chlorinator 9/14   |                                     | \$3,745                             |                                     |                                     |
| WELL 'A' (#6) New Well - May '09                                       |                                     |                                     |                                     |                                     |
| Well #6: 60-hp Pump Replace 8/14                                       |                                     |                                     |                                     |                                     |
| Well #6: Meter Rebuild 5/09  |                                     |                                     |                                     |                                     |
| Well #6: Hypo-Chlorinator 10/14  |                                     | \$3,745                             |                                     | 100                                 |
| CISTERNS(7)  |                                     |                                     |                                     |                                     |
| Cisterns - Clean 7/02  |                                     |                                     |                                     |                                     |
| COMMUNICATION SYSTEMS  |                                     |                                     |                                     |                                     |
| Cisterns - Probe 3/11  |                                     |                                     |                                     | \$2,709                             |
| Radio System Hardware 5/13   | \$47,106                            |                                     |                                     | φ <u></u> 2,700                     |
| Alarm Agent 4/09   | Ψ11,100                             |                                     |                                     |                                     |
| FUTURE WELL REPLACEMENT  |                                     |                                     |                                     | <del></del>                         |
| Drill & Install New Well 'A' (was #2)                                  |                                     |                                     |                                     |                                     |
| Drill & Install New Well 'B' (was #5)                                  |                                     |                                     |                                     |                                     |
| Drill & Install New Well 'C' (was #6)                                  |                                     |                                     |                                     |                                     |
| WELL ENCLOSURE FENCING   |                                     |                                     |                                     | 7.0                                 |
|  |                                     |                                     |                                     |                                     |
| Well #2, #4, #5 - Wood Fencing   |                                     |                                     |                                     |                                     |
| Well #2, #4, #5 - Split Rail Fence                                     |                                     |                                     |                                     |                                     |
| MISCELLANEOUS  |                                     |                                     |                                     |                                     |
| Fire Hydrants (15) - Replace   | 40.004                              | #0.540                              | 40.700                              | 40.004                              |
| Shutoff Valves   | \$8,264                             | \$8,512                             | \$8,768                             | \$9,031                             |
| Residential Water Meters   | \$3,719                             | \$3,830                             | \$3,945                             | \$4,064                             |
| Cistern Access Road Chip Seal 12/12 Inflation factor applied each year | 1.653                               | \$6,878<br>1.702                    | 1.754                               | 1.806                               |
| Estimated total reserve expense  | \$59,089                            | \$105,021                           | \$12,713                            | \$19,777                            |
|  | φου,σου                             | Ψ100,021                            | ψ12,710                             | φισ,                                |
| CASH FLOW FORECASTS  |                                     |                                     |                                     |                                     |
| Annual reserve funding   | \$103,495                           | \$106,600                           | \$109,798                           | \$113,092                           |
| Special Assessment   |                                     |                                     |                                     |                                     |
| After-tax interest earnings  | \$1,005                             | \$1,178                             | \$1,189                             | \$1,563                             |
| Gross reserve account income   | \$104,500                           | \$107,778                           | \$110,987                           | \$114,655                           |
| Annual reserve expense   | \$59,089                            | \$105,021                           | \$12,713                            | \$19,777                            |
| Net annual reserve income  | \$45,411                            | \$2,757                             | \$98,274                            | \$94,878                            |
| Reserve Acct - Beginning of year                                       | \$263,966                           | \$309,378                           | \$312,135                           | \$410,408                           |
| Reserve Account - End of year  | \$309,378                           | \$312,135                           | \$410,408                           | \$505,286                           |

| RESERVE<br>COMPONENTS                 | Fiscal Year<br>Beginning in<br>2037 | Fiscal Year<br>Beginning in<br>2038 | Fiscal Year<br>Beginning in<br>2039 | Fiscal Year<br>Beginning in<br>2040   |
|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| WELL#2                                |                                     |                                     |                                     |                                       |
| Well #2: 30-hp Pump Replace 10/14     |                                     | \$38,322                            |                                     |                                       |
| Well #2: Meter Rebuild 4/13           |                                     |                                     |                                     |                                       |
| Well #2: Hypo-Chlorinator 7/12        |                                     |                                     |                                     | \$4,472                               |
| WELL#5                                |                                     |                                     |                                     | -                                     |
| Well #5: 60-hp Pump Replace 8/11      |                                     |                                     |                                     | \$89,443                              |
| Well #5: Meter Rebuild 4/13           |                                     |                                     |                                     |                                       |
| Well #5: Hypo-Chlorinator 9/14        |                                     | \$4,215                             |                                     |                                       |
| W E L L 'A' (# 6) New Well - May '09  |                                     |                                     |                                     |                                       |
| Well #6: 60-hp Pump Replace 8/14      |                                     | \$84,309                            |                                     |                                       |
| Well #6: Meter Rebuild 5/09           | \$1,860                             | 40.,000                             |                                     |                                       |
| Well #6: Hypo-Chlorinator 10/14       | ψ.,σσσ                              | \$4,215                             |                                     |                                       |
| CISTERNS(7)                           |                                     | Ψ 1,2 10                            |                                     |                                       |
| Cisterns - Clean 7/02                 |                                     |                                     |                                     |                                       |
| COMMUNICATION SYSTEMS                 |                                     |                                     |                                     |                                       |
| Cisterns - Probe 3/11                 | 1                                   |                                     |                                     | ድ በላር                                 |
|                                       |                                     |                                     |                                     | \$3,049                               |
| Radio System Hardware 5/13            | Φ0 074                              |                                     |                                     | *                                     |
| Alarm Agent 4/09                      | \$8,371                             |                                     |                                     |                                       |
| FUTURE WELL REPLACEMENT               |                                     |                                     |                                     |                                       |
| Drill & Install New Well 'A' (was #2) |                                     |                                     |                                     | kines                                 |
| Drill & Install New Well 'B' (was #5) |                                     |                                     |                                     |                                       |
| Drill & Install New Well 'C' (was #6) |                                     | \$523,441                           |                                     |                                       |
| WELL ENCLOSURE FENCING                |                                     |                                     |                                     | · · · · · · · · · · · · · · · · · · · |
| Well #2, #4, #5 - Wood Fencing        | \$13,636                            |                                     |                                     |                                       |
| Well #2, #4, #5 - Split Rail Fence    | \$10,120                            |                                     |                                     |                                       |
| MISCELLANEOUS                         |                                     |                                     |                                     |                                       |
| Fire Hydrants (15) - Replace          |                                     |                                     |                                     | **                                    |
| Shutoff Valves                        | \$9,301                             | \$9,581                             | \$9,868                             | \$10,164                              |
| Residential Water Meters              | \$4,186                             | \$4,311                             | \$4,441                             | \$4,574                               |
| Cistern Access Road Chip Seal 12/12   |                                     |                                     |                                     | \$8,212                               |
| Inflation factor applied each year    | 1.860                               | 1.916                               | 1.974                               | 2.033                                 |
| Estimated total reserve expense       | \$47,474                            | \$668,394                           | \$14,309                            | \$119,914                             |
| CASH FLOW FORECASTS                   |                                     |                                     |                                     |                                       |
| Annual reserve funding                | \$116,485                           | \$119,979                           | \$123,579                           | \$127,286                             |
| Special Assessment                    | 4110,100                            | Ψ110,070                            | ψ.25,070                            | Ψ127,200                              |
| After-tax interest earnings           | \$1,924                             | \$2,194                             | \$114                               | \$531                                 |
| Gross reserve account income          | \$118,409                           | \$122,173                           | \$123,693                           | \$127,817                             |
| Annual reserve expense                | \$47,474                            | \$668,394                           | \$14,309                            | \$119,914                             |
| Net annual reserve income             | \$70,935                            | (\$546,221)                         | \$109,384                           | \$7,903                               |
| Reserve Acct - Beginning of year      | \$505,286                           | \$576,221                           | \$30,000                            | \$139,384                             |
| Reserve Account - End of year         | \$576,221                           | \$30,000                            | \$139,384                           | \$147,286                             |

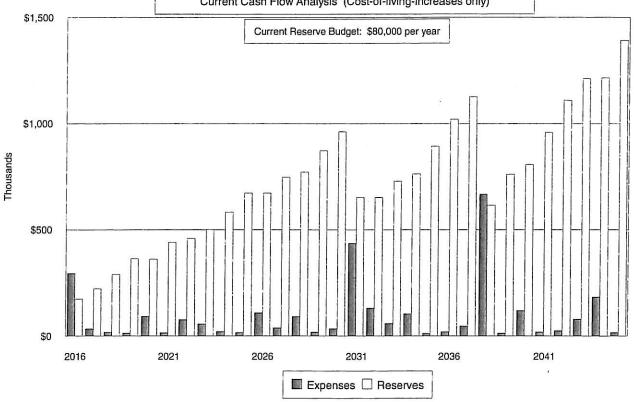
| RESERVE<br>COMPONENTS                     | Fiscal Year<br>Beginning in | Fiscal Year<br>Beginning in | Fiscal Year<br>Beginning in | Fiscal Year<br>Beginning in |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|   | 2041                        | 2042                        | 2043                        | 2044                        |
| W E L L # 2                               |                             |                             |                             |                             |
| Well #2: 30-hp Pump Replace 10/14         |                             |                             |                             | \$45,759                    |
| Well #2: Meter Rebuild 4/13               | \$2,094                     |                             |                             |                             |
| Well #2: Hypo-Chlorinator 7/12            | φ2,001                      |                             |                             | \$5,033                     |
| WELL#5                                    |                             |                             |                             | 40,000                      |
| Well #5: 60-hp Pump Replace 8/11          |                             |                             |                             |                             |
| Well #5: Meter Rebuild 4/13               | \$2,094                     |                             |                             |                             |
|   | Ψ2,054                      | \$4,745                     |                             |                             |
| Well #5: Hypo-Chlorinator 9/14            |                             | φ4,743                      |                             |                             |
| W E L L 'A' (# 6) New Well - May '09      |                             |                             |                             | \$100,669                   |
| Well #6: 60-hp Pump Replace 8/14          |                             |                             |                             |                             |
| Well #6: Meter Rebuild 5/09               |                             | D 4 7 4 5                   |                             | \$2,288                     |
| Well #6: Hypo-Chlorinator 10/14           |                             | \$4,745                     |                             |                             |
| CISTERNS(7)                               |                             |                             |                             | _                           |
| Cisterns - Clean 7/02                     |                             |                             |                             |                             |
| COMMUNICATION SYSTEMS                     |                             |                             |                             |                             |
| Cisterns - Probe 3/11                     |                             |                             |                             | \$3,432                     |
| Radio System Hardware 5/13                |                             |                             | \$63,307                    |                             |
| Alarm Agent 4/09                          |                             |                             |                             | \$10,296                    |
| FUTURE WELL REPLACEMENT                   |                             |                             |                             |                             |
| Drill & Install New Well 'A' (was #2)     |                             |                             |                             |                             |
| Drill & Install New Well 'B' (was #5)     |                             |                             |                             |                             |
| Drill & Install New Well 'C' (was #6)     |                             |                             |                             |                             |
| WELL ENCLOSURE FENCING                    |                             |                             |                             |                             |
| Well #2, #4, #5 - Wood Fencing            |                             |                             |                             |                             |
| Well #2, #4, #5 - Split Rail Fence        |                             |                             |                             |                             |
| MISCELLANEOUS                             |                             | (4)                         |                             |                             |
| Fire Hydrants (15) - Replace              |                             |                             |                             | art .                       |
| Shutoff Valves                            | \$10,469                    | \$10,783                    | \$11,106                    | \$11,440                    |
| Residential Water Meters                  | \$4,711                     | \$4,852                     | \$4,998                     | \$5,148                     |
| Cistern Access Road Chip Seal 12/12       | Ψη                          | <b>4.,00</b>                |                             |                             |
| Inflation factor applied each year        | 2.094                       | 2.157                       | 2.221                       | 2.288                       |
| Estimated total reserve expense           | \$19,368                    | \$25,125                    | \$79,411                    | \$184,065                   |
|   |                             |                             |                             |                             |
|   |                             |                             |                             |                             |
| 2.24.5.24.5.25.425                        |                             |                             |                             |                             |
| CASH FLOW FORECASTS                       | 0101 104<br>101 101         | \$135,038                   | \$139,089                   | \$143,261                   |
| Annual reserve funding Special Assessment | \$131,104                   | φ133,036                    | φ139,009                    | \$145,201                   |
| After-tax interest earnings               | \$561                       | \$988                       | \$1,411                     | \$1,643                     |
| Attor-tax interest carriings              | ΨΟΟΙ                        | φοσο                        | Ψι,ιι                       |                             |
| Gross reserve account income              | \$131,665                   | \$136,026                   | \$140,500                   | \$144,905                   |
| Annual reserve expense                    | \$19,368                    | \$25,125                    | \$79,411                    | \$184,065                   |
| Net annual reserve income                 | \$112,297                   | \$110,901                   | \$61,089                    | (\$39,160                   |
| Reserve Acct - Beginning of year          | \$147,286                   | \$259,584                   | \$370,485                   | \$431,573                   |
| Reserve Account - End of year             | \$259,584                   | \$370,485                   | \$431,573                   | \$392,413                   |

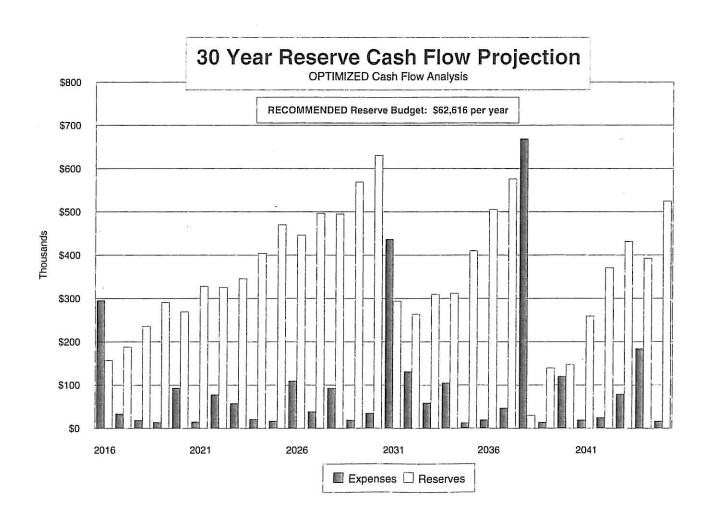
| RESERVE<br>COMPONENTS  | Fiscal Year<br>Beginning in<br>2045 |
|--|-------------------------------------|
| W E L L # 2  |                                     |
| Well #2: 30-hp Pump Replace 10/14                                  |                                     |
| Well #2: Meter Rebuild 4/13  |                                     |
| Well #2: Hypo-Chlorinator 7/12                                     |                                     |
| W E L L # 5  |                                     |
|  |                                     |
| Well #5: 60-hp Pump Replace 8/11                                   |                                     |
| Well #5: Meter Rebuild 4/13  |                                     |
| Well #5: Hypo-Chlorinator 9/14                                     |                                     |
| W E L L 'A' (# 6) New Well - May '09                               |                                     |
| Well #6: 60-hp Pump Replace 8/14                                   |                                     |
| Well #6: Meter Rebuild 5/09  |                                     |
| Well #6: Hypo-Chlorinator 10/14                                    |                                     |
| CISTERNS (7)   |                                     |
| Cisterns - Clean 7/02  |                                     |
| COMMUNICATION SYSTEMS  | 9                                   |
| Cisterns - Probe 3/11  |                                     |
| Radio System Hardware 5/13   |                                     |
| Alarm Agent 4/09   |                                     |
| FUTURE WELL REPLACEMENT  |                                     |
| Drill & Install New Well 'A' (was #2)                              |                                     |
| Drill & Install New Well 'B' (was #5)                              | <del> </del>                        |
| Drill & Install New Well 'C' (was #6)                              |                                     |
| WELL ENCLOSURE FENCING   |                                     |
| Well #2, #4, #5 - Wood Fencing                                     |                                     |
| Well #2, #4, #5 - Split Rail Fence                                 |                                     |
| MISCELLANEOUS  |                                     |
|  |                                     |
| Fire Hydrants (15) - Replace                                       | Ф14 <b>7</b> 00                     |
| Shutoff Valves   | \$11,783                            |
| Residential Water Meters   | \$5,302                             |
| Cistern Access Road Chip Seal 12/12                                | 2.357                               |
| Inflation factor applied each year Estimated total reserve expense | \$17,085                            |
| Estimated total reserve expense                                    | φ17,000                             |
|  |                                     |
| CASH FLOW FORECASTS  |                                     |
| Annual reserve funding   | \$147,559                           |
| Special Assessment   |                                     |
| After-tax interest earnings  | \$1,494                             |
| Gross reserve account income                                       | \$149,054                           |
| Annual reserve expense   | \$17,085                            |
| Net annual reserve income  | \$131,969                           |
| Reserve Acct - Beginning of year                                   | \$392,413                           |
| Reserve Account - End of year                                      | \$524,382                           |

### Oak Trails Estates Mutual Water Company

## 30 Year Reserve Cash Flow Projection

Current Cash Flow Analysis (Cost-of-living-increases only)





## **Understanding Your Cash Flow Analysis**

Understanding your reserve analysis report does not necessarily require knowledge of accounting. The cash flow analysis conforms to the suggested example presented in the California State Department of Real Estate's <u>Reserve Study Guidelines for Homeowner Association Budgets</u> publication.

When examining the <u>Optimized Cash Flow Analysis</u> on the preceding pages, your primary concern should be to confirm that your reserve balance never falls below zero in the 30-year projection. The Optimized Cash Flow Analysis determines the <u>optimal</u> reserve contribution such that your water company does not have a reserve deficit during the 30-year projection. Another *Status Quo Cash Flow Analysis* is done – but not printed, to avoid confusion – to calculate what will happen if you continue reserve funding at current levels without dramatic adjustments to the reserve contribution.

Note: Because the cash flow analysis uses a "zero-based" counting system, items to be replaced in year 2016 are shown with zero years remaining life as of the beginning of FY 2016 and items to be replaced the next year are shown with one year remaining life and so on... Thus an item with a 27-year life is shown with 26 years.

Following is a description of each line item in your reserve analysis report.

#### **RESERVE COMPONENT COSTS**

The first section of the reserve analysis report itemizes each long-term repair/replacement expense for your water company. Each of these recurring costs, or "reserve components," is listed with its estimated useful life, estimated remaining life, and estimated cost to repair.

#### **Inflation Factor Applied Each Year**

This line-item shows compounded inflation rates used to determine future costs. The first number in this row is 1.000, which means that no inflation is assumed during the first year. This is because cost estimates are in current-year prices. If you repair or replace the items for which you recently obtained price quotes, the price will not yet be influenced by inflation.

The Inflation Factor for the second year in your reserve analysis is equal to the inflation rate you chose to apply to long-term expenses. Notice the inflation factor is compounded in subsequent years thereafter.

#### Estimated Total Reserve Expense (NOTE: Costs Adjusted For Inflation)

The "Estimated Total Reserve Expense" line shows yearly future reserve expense totals multiplied by the compounded inflation rate. For each year in the reserve analysis, this line-item indicates how much money your water company must have in reserve to fund all expenses in that

year. You should examine the 30-year projection thoroughly to see which years have the highest expenses. High-expense years significantly deplete your reserve account.

Note the profound effect of compound inflation on future costs. Seeing these inflation-adjusted future costs provides a tangible incentive to set aside adequate funds in reserve.

#### CASH FLOW FORECASTS

Towards the bottom of the Optimized Cash Flow Analysis is a the "Cash Flow Forecast" section that reconciles inflation-adjusted future expenses for each year against recommended annual reserve funding, special assessment income (if any) and after-tax interest income. Each cash flow line item is described below.

#### **Annual Reserve Funding**

The "Annual Reserve Funding" line shows the recommended regular reserve assessments the water company should budget for its reserve fund in each year. The Optimized Cash Flow Analysis determines the optimal annual reserve contribution such that capital expenses will be adequately funded while maintaining a reserve account balance above zero in each of the next 30 years. Therefore, the primary focus of the reserve study is to determine the optimal recommended reserve funding amount as shown on this line that will ensure funding for projected expenses.

Because repair/replacement costs typically increase at the rate of inflation, the cash flow projection assumes annual reserve funding will increase at the same rate to match these inflationary effects.

#### **Special Assessment**

The "Special Assessment" line shows how much the water company will need to supplement its reserve funding (e.g. regular assessments) with "special assessments" – if special assessments are necessary. It shows how much will need to be assessed and in what years assessments need to be made. If the projection doesn't anticipate a need for a special assessment, there will be nothing shown on this line for each of the next 30 years.

#### After-Tax Interest Earnings on Reserve Account

Interest earned on reserve account funds can make a substantial contribution to reserve funding. These funds are usually taxed, so the interest earned is reduced by the tax rate you provided. Reserve account interest is reinvested in the reserve account in this cash flow model.

#### **Gross Reserve Account Income**

The figures on this line represent the sum of the "Annual Reserve Funding," "Special Assessments" (if any), and "After-Tax Interest Earnings on Reserve Account" amounts assuming reserve account interest is reinvested in the reserve account. But don't confuse this with "net reserve income" because the gross income amount is the reserve income <u>before</u> reserve expenses have been paid for that particular year. Sometimes expenses exceed annual reserve funding.

#### Annual Reserve Expense (from total above)

The "Annual Reserve Expense" line simply carries the numbers down from the "Estimated Total Reserve Expense" line above. This line represents the water company's total reserve funding liability (expense) for each year. These costs are then subtracted from the "Gross Reserve Account Income" for each year in the cash flow to yield the net reserve income for the year as shown on the following line.

#### Net Annual Reserve Income (Reserve Expense Minus Reserve Income)

This line shows the reserve cash balance remaining after subtracting major component costs for each year from the annual reserve account income. In other words, it represents the <u>Net Income</u> to your reserve account for the year. NOTE: If the major component costs for one year *exceed* the reserve account income for that year, this number will be negative, thereby reducing the reserve account balance from the prior year. A negative net reserve income amount for any one year doesn't necessarily mean you're going to run out of reserves if you had a significant reserve balance going into that year.

#### Reserve Account, Beginning of Year

This line-item shows the reserve account balance at the beginning of the year before major component costs for the year are expensed.

#### Reserve Account, End of Year

The "Reserve Account, End of Year" line is perhaps the <u>most important</u> part of your cash flow analysis. It shows the net amount of money remaining in your reserve account at the end of each year after major reserve component costs have been paid.

Scan along this "bottom line" of your Cash Flow Analysis to determine which years in the 30-year projection have low projected reserve account balances so you can identify which expenses to anticipate in those years. Note also that the *Reserve Cash Flow Analysis - Optimized Projection* has no negative reserve account balances for the duration of the projection because our SmartReserve™ software has optimized the reserve contribution to avoid future reserve deficits.

Some water companies request to have the cash flow optimizer determine the appropriate annual reserve contribution such that in the worst case year in the 30-year projection, their reserve account always maintains a minimum balance that is more than zero dollars. This is a way of implementing a contingency buffer for unforeseen expenses.

# Reserve Component Allocations Derived From Optimized Cash Flow Analysis

The *Reserve Component Allocations* report on the following page is useful to water companies meeting the following conditions:

- \* Your water company keeps track of reserve funds allocated to each reserve component, (for example, "we have \$33,333 in our roofing fund, \$4,444 in our paving fund, \$5,555 in our painting fund, etc.") AND
- \* Your water company has decided to base the forthcoming year's reserve budget on the recommendations set forth in the *Optimized Cash Flow Analysis* on the preceding pages.

(On the contrary, if your water company simply considers reserves as a pool of funds in the cash flow analysis "Cash Flow Pooling," then this report is probably not needed).

The Reserve Component Allocations report helps your water companies to:

- \* Reallocate your fiscal year-end reserve fund balance proportionally among all reserve components (you can find this information on the following page in the second column from the right, titled "FY 2016 Begin Cash Flow Balance").
- \* Determine how much of your newly-chosen reserve budget per the *Optimized Cash Flow Analysis* funding recommendation should be allocated to each reserve component. For example, a water company might want to indicate "in the forthcoming year, we budgeted \$30,000 for reserves, of which, \$12,000 was applied to the paving fund, \$5,000 to the painting fund, and \$13,000 to the roofing fund, etc." You can find this information on the following page in the rightmost column, titled "2016 Cash Flow Allocations"

Note that the total of the annual allocations for each reserve component equals the annual reserve funding amount recommended by the *Optimized Cash Flow Analysis*.

If your water company has elected to fund reserves via the straight-line depreciation method (generally a less precise funding method than the cash flow analysis), the reserve component allocations are on the straight-line analysis report in the next section.

## Oak Trails Estates Mutual Water Company

RESERVE COMPONENT ALLOCATIONS DERIVED FROM OPTIMIZED CASH FLOW ANALYSIS Use this report if you keep track of reserve funds allocated to each individual reserve component

AND if you have selected the optimized cash flow funding recommendation

| RESERVE                               | Estimated  | Estimated    | Estimated    | Estimated          | Jan 1, 2016   | FY 2016     |
|---------------------------------------|--|--------------|--------------|--------------------|---------------|-------------|
| COMPONENTS                            | Useful   | Remaining    | Current Cost | <b>Future Cost</b> | Begin Cash    | Cash Flow   |
|                                       | Life (years)   | Life (years) | to Replace   | to Replace         | Flow Balances | Allocations |
|                                       |  |              |              |                    |               |             |
| WELL#2                                |  |              |              |                    |               |             |
| Well #2: 30-hp Pump Replace 10/14     | 6  | 4            | \$20,000     | \$22,510           | \$4,717       | \$3,195     |
| Well #2: Meter Rebuild 4/13           | 7  | 4            | \$1,000      | \$1,126            | \$303         | \$137       |
| Well #2: Hypo-Chlorinator 7/12        | 4  | 0            | \$2,200      | \$2,200            | \$1,557       | \$527       |
| WELL#5                                |  |              |              |                    |               |             |
| Well #5: 60-hp Pump Replace 8/11      | 6  | 0            | \$44,000     | \$44,000           | \$31,133      | \$7,029     |
| Well #5: Meter Rebuild 4/13           | 7  | 4            | \$1,000      | \$1,126            | \$303         | \$137       |
| Well #5: Hypo-Chlorinator 9/14        | 4  | 2            | \$2,200      | \$2,334            | \$778         | \$527       |
| WELL 'A' (#6) New Well - May '0       | 9  |              |              |                    |               |             |
| Well #6: 60-hp Pump Replace 8/14      | 6  | 4            | \$44,000     | \$49,522           | \$10,378      | \$7,029     |
| Well #6: Meter Rebuild 5/09           | 7  | 0            | \$1,000      | \$1,000            | \$708         | \$137       |
| Well #6: Hypo-Chlorinator 10/14       | 4  | 2            | \$2,200      | \$2,334            | \$778         | \$527       |
| CISTERNS(7)                           |  |              |              |                    |               |             |
| Cisterns - Clean 7/02                 | 15   | 1            | \$7,000      | \$7,210            | \$4,623       | \$447       |
| COMMUNICATION SYSTE                   | MS   |              |              |                    |               |             |
| Cisterns - Probe 3/11                 | 4  | 0            | \$1,500      | \$1,500            | \$1,061       | \$359       |
| Radio System Hardware 5/13            | 10   | 7            | \$28,500     | \$35,051           | \$6,050       | \$2,732     |
| Alarm Agent 4/09                      | 7  | 0            | \$4,500      | \$4,500            | \$3,184       | \$616       |
| FUTURE WELL REPLACE                   |  |              |              |                    |               |             |
| Drill & Install New Well 'A' (was #2) | 30   | 1            | \$225,000    | \$231,750          | \$153,894     | \$7,189     |
| Drill & Install New Well 'B' (was #5) | 30   | 15           | \$273,180    | \$425,606          | \$96,645      | \$8,728     |
| Drill & Install New Well 'C' (was #6) | 30   | 22           | \$273,180    | \$523,441          | \$51,544      | \$8,728     |
| WELL ENCLOSURE FENC                   | A STATE OF THE PARTY OF THE PAR |              |              |                    |               |             |
| Well #2, #4, #5 - Wood Fencing        | 10   | 1            | \$7,330      | \$7,550            | \$4,668       | \$703       |
| Well #2, #4, #5 - Split Rail Fence    | 10   | 1            | \$5,440      | \$5,603            | \$3,464       | \$521       |
| MISCELLANEOUS                         |  |              |              |                    |               |             |
| Fire Hydrants (15) - Replace          | 1  | 0            | \$6,000      | \$6,000            | \$4,245       | \$5,751     |
| Shutoff Valves                        | 1  | 0            | \$5,000      | \$5,000            | \$3,538       | \$4,793     |
| Residential Water Meters              | 1  | 0            | \$2,250      | \$2,250            | \$1,592       | \$2,157     |
| Cistern Access Road Chip Seal 12/12   | 6  | 0            | \$4,040      | \$4,040            | \$2,859       | \$645       |
| TOTALS                                |  |              | \$960,520    | \$1,385,653        | \$388,021     | \$62,616    |

## Straight-Line Depreciation Analysis and Percent Funded Estimate

A *Straight-Line Depreciation Analysis and Percent Funded Report* follows this page. This type of analysis is occasionally used by water companies that track reserve expenses individually.

Straight-Line Analysis is often referred to as a component method because funding for each reserve component is determined individually. This differs from the Cash Flow Analysis method which determines funding for the aggregate group of reserve component expenses during each year in a 30-year projection and makes sure there are enough reserves in each of those years for that group of expenses.

The rightmost column in the analysis on the next page represents the amount of funds necessary to <u>defray the cost of depreciation</u> for all reserve components in the forthcoming year. This amount alone is <u>not</u> always the proper annual reserve funding amount. If there is "unfunded depreciation liability-to-date" (e.g. not enough funds have been saved in past years), the funding amount would need to be more than just the annual depreciation total.

The reserve fund status, expressed in terms of the "<u>Percent Funded Estimate</u>," is a required disclosure and determined from the Straight-Line Analysis as follows:

## Percent Funded Estimate = Reserve Account Balance Cumulative-to-date depreciation liability

The percent funded estimate is essentially a measure of the *strength of reserves relative to cumulative depreciation of assets* such as roofing, paving, etc.

If the water company is not 100% funded for depreciation-to-date (fully funded), the report shows the *reserve deficit*, known as the "*Unfunded Depreciation Liability*." This is the amount the water company would need to add to reserves in order to be 100% funded.

For more description of the straight-line analysis method used in this report, refer to the "Reserve Analysis Methodology" section in this study.

## Oak Trails Estates Mutual Water Company

## STRAIGHT-LINE DEPRECIATION & PERCENT FUNDED ANALYSIS Inflation-Adjusted Method

| RESERVE   | Estimated       | Estimated       | Estimated              | End Dec 2015       | Jan 1, 2016    | FY 2016      |
|---|-----------------|-----------------|------------------------|--------------------|----------------|--------------|
| COMPONENTS  | Useful          | Remaining       | Current Cost           | 100% Funded        | Beginning      | Annual       |
| John Chance   | Life (years)    | Life (years)    | to Replace             | Amount             | Fund Balances  | Depreciation |
|   |                 |                 | to Hopiaso             | 711100111          | . dita Balanoo | Boprodiation |
| WELL#2  |                 |                 |                        |                    |                |              |
| Well #2: 30-hp Pump Replace 10/14   | 6               | 4               | \$20,000               | \$6,667            | \$4,717        | \$3,433      |
| Well #2: Meter Rebuild 4/13   | 7               | 4               | \$1,000                | \$429              | \$303          | \$147        |
| Well #2: Hypo-Chlorinator 7/12  | 4               | 0               | \$2,200                | \$2,200            | \$1,557        | \$567        |
| WELL#5  |                 |                 |                        |                    |                |              |
| Well #5: 60-hp Pump Replace 8/11  | 6               | 0               | \$44,000               | \$44,000           | \$31,133       | \$7,553      |
| Well #5: Meter Rebuild 4/13   | 7               | 4               | \$1,000                | \$429              | \$303          | \$147        |
| Well #5: Hypo-Chlorinator 9/14  | 4               | 2               | \$2,200                | \$1,100            | \$778          | \$567        |
| WELL 'A' (# 6) New Well - May '0  | 9               |                 | <del>iii</del>         |                    |                |              |
| Well #6: 60-hp Pump Replace 8/14  | 6               | 4               | \$44,000               | \$14,667           | \$10,378       | \$7,553      |
| Well #6: Meter Rebuild 5/09   | 7               | 0               | \$1,000                | \$1,000            | \$708          | \$147        |
| Well #6: Hypo-Chlorinator 10/14   | 4               | 2               | \$2,200                | \$1,100            | \$778          | \$567        |
| CISTERNS(7)   |                 |                 |                        | , , , ,            |                |              |
| Cisterns - Clean 7/02   | 15              | 1               | \$7,000                | \$6,533            | \$4,623        | \$481        |
| COMMUNICATION SYSTE   |                 |                 |                        | ,                  | 7 .,,===       |              |
| Cisterns - Probe 3/11   | 4               | 0               | \$1,500                | \$1,500            | \$1,061        | \$386        |
| Radio System Hardware 5/13  | 10              | 7               | \$28,500               | \$8,550            | \$6,050        | \$2,936      |
| Alarm Agent 4/09  | 7               | 0               | \$4,500                | \$4,500            | \$3,184        | \$662        |
| FUTURE WELL REPLACE   | MENT            |                 | 1 //                   | 7 7                |                |              |
| Drill & Install New Well 'A' (was #2)   | 30              | 1               | \$225,000              | \$217,500          | \$153,894      | \$7,725      |
| Drill & Install New Well 'B' (was #5)   | 30              | 15              | \$273,180              | \$136,590          | \$96,645       | \$9,379      |
| Drill & Install New Well 'C' (was #6)   | 30              | 22              | \$273,180              | \$72,848           | \$51,544       | \$9,379      |
| WELL ENCLOSURE FENC   |                 |                 |                        |                    |                |              |
| Well #2, #4, #5 - Wood Fencing  | 10              | 1               | \$7,330                | \$6,597            | \$4,668        | \$755        |
| Well #2, #4, #5 - Split Rail Fence  | 10              | 1               | \$5,440                | \$4,896            | \$3,464        | \$560        |
| MISCELLANEOUS   |                 |                 |                        |                    |                |              |
| Fire Hydrants (15) - Replace  | 1               | 0               | \$6,000                | \$6,000            | \$4,245        | \$6,180      |
| Shutoff Valves  | 1               | 0               | \$5,000                | \$5,000            | \$3,538        | \$5,150      |
| Residential Water Meters  | 1               | 0               | \$2,250                | \$2,250            | \$1,592        | \$2,318      |
| Cistern Access Road Chip Seal 12/12   | 6               | 0               | \$4,040                | \$4,040            | \$2,859        | \$694        |
| TOTALS  |                 |                 | \$960,520              | \$548,395          | \$388,021      | \$67,285     |
|   |                 |                 | 87 25                  | 89 III             |                |              |
| Reserve Account Balance, estimated (or projected) as of start of new fiscal year: |                 |                 |                        |                    |                | \$388,021    |
| Percent Funded Estimate ( reserves / recommended fund balance ):                  |                 |                 |                        |                    | 70.8%          |              |
| *Reserve Deficiency ( 100% Funded reserve balance minus actual reserve balance ): |                 |                 |                        |                    |                | \$160,374    |
| RECOMMENDATIONS, IF 100% FUN  |                 |                 |                        |                    |                |              |
| Monthly Capital Asset Depreciation:   |                 |                 |                        |                    | \$5,607        |              |
| Average Monthly Capital Asset Depreciation per Member:                            |                 |                 |                        |                    | \$77.88        |              |
|   |                 |                 |                        |                    |                |              |
| NOTE:Year 2016 Funding R  | equirement is b | ased on 3.0% ir | flation-adjusted st    | traight-line depre | ciation        | 1            |
|   | 0.75            |                 | I Life) X (Inflation t |                    |                | ł            |

## Reserve Component Description (Physical Analysis)

The following pages contain descriptions of each identified reserve component maintained by the water company. Each reserve component is shown with its estimated useful life, remaining life, and current cost to replace. Supporting information is included where applicable.

This information is analyzed by computer to produce the cash flow analysis and straight-line analysis reports.

This component inventory and condition assessment information was obtained during discussions with the watermaster in February 2106 and/or via subsequent discussions with local contractors, board members or agents for the board. No destructive testing was done to determine condition of components that are not readily accessible (for example, sampling plumbing lines or flat roof core samples).

Remaining life estimates are based on typical useful life expectancy minus effective age of components (which may not be the same as chronological age). Published costs and life expectancies may also be used.

No representation is made as to how much *actual* costs and *actual* life expectancies at the time of future replacement may differ from estimates contained herein. Because actual contractor bids vary considerably, it is entirely possible that the water company may select a bid that is more costly or less costly than the estimates provided herein. Also note that contractor estimates discussed on the following pages are not to be interpreted as formal bids or as an endorsement of that particular contractor.

This analysis is not to be considered as a project audit or quality inspection.

Well #2: 30-hp Pump Replace 10/14

Location: Well #2.

Remaining Life: 4 Years.

Comments: The 30-hp pump & motor for Well #2 was installed in July 2000 and another one was installed in Sept 2008 for \$17,000. In October 2014, another one installed for about \$20,000.

Current Replacement Cost: \$20,000 at \$20,000 per 30-hp Pump Full Replacement..

Preventative Maintenance: Regular inspection.

#### Well #2: Meter Rebuild 4/13

| Location: Well #2.                           | Quantity: 1 Well meter rebuild.   |
|--|---|
| Remaining Life: 4 Years.                     | Typical Useful Life: 7 Years.   |
| Cost new is about \$2,000, but can be rebuil | vas replaced in 1992 and rebuilt in August 2005. It for about half that at about \$1000. New well meter g because new communications system installed, but d. |
| Current Replacement Cost: \$1,000 at \$1,0   | 000 per Well meter rebuild.   |
|  | ection.   |

Well #2: Hypo-Chlorinator 7/12

| Location: Well #2.  | Quantity: 1 Hypo-Chlorinator.           |  |  |
|---|---|--|--|
| Remaining Life: 0 Year (within next 12 months).   | onths). Typical Useful Life: 4 Years.   |  |  |
| Comments: Well #2 hypo-chlorinator was replaced. The chlorinators bleed chlorine into the water system chlorination. They typically have a 3-4 year useful. | m at a prescribed rate to ensure proper |  |  |
| Current Replacement Cost: \$2,200 at \$2,200 per Hy   | ypo-Chlorinator.                        |  |  |
| Preventative Maintenance: Regular inspection.   | 1 2                                     |  |  |

Well #5: 60-hp Pump Replace 8/11

Location: Well #5. Quantity: 1 60-hp pump.

Remaining Life: 0 Year (within next 12 months). Typical Useful Life: 6 Years.

Comments: The 60-hp pump for Well #5 was installed in March 2002 and had a motor replacement in August 2005. Full pump replaced in August 2011 for about \$44,000. Rather than replace the motor only midway in the service life of a pump, these pumps get a lot of use and the watermaster suggests it no longer makes sense to replace just the pump motor and then a few years later replace the entire pump when just the pump mechanism fails. So scheduling changed for full pump/motor replace and clean every 6 years.

Current Replacement Cost: \$44,000 at \$44,000 per 60-hp pump.

Preventative Maintenance: Regular inspection.

Well #5: Meter Rebuild 4/13

Location: Well #5.Quantity: 1 Well meter rebuild.Remaining Life: 4 Years.Typical Useful Life: 7 Years.

**Comments:** The well meter for Well #5 was replaced in August 2005. Cost new is about \$2,000, but can be rebuilt for about half that at about \$1000. New well meter was installed in April 2013, rather than rebuilding because new communications system installed, but hereafter will try to continue rebuilding as needed.

Current Replacement Cost: \$1,000 at \$1,000 per Well meter rebuild.

Preventative Maintenance: Regular inspection.

Well #5: Hypo-Chlorinator 9/14

Location: Well #5.

Quantity: 1 Hypo-Chlorinator.

Remaining Life: 2 Years.

Typical Useful Life: 4 Years.

**Comments:** Well #5 hypo-chlorinator was replaced in March 2002 and in 2008 and in Sept 2014. Cost about \$2,200. The chlorinators bleed chlorine into the water system at a prescribed rate to ensure proper chlorination. They typically have a 3-4 year useful life because the chlorine is quite corrosive.

Current Replacement Cost: \$2,200 at \$2,200 per Hypo-Chlorinator.

Preventative Maintenance: Regular inspection.

Well #6: 60-hp Pump Replace 8/14

Location: Well #6. Quantity: 1 60-hp pump.

Remaining Life: 4 Years. Typical Useful Life: 6 Years.

Comments: The water company drilled a new Well 'A' to replace #6 in May 2009. Thereafter, there will be 60-hp Pump Replacement. Rather than replace the motor only midway in the service life of a pump, these pumps get a lot of use and the watermaster suggests it no longer makes sense to replace just the pump motor and a few years later replace the entire pump when just the pump mechanism fails. So scheduling changed for full pump/motor replace and clean every 6 years. Pump motor in 8/14 for \$21K.

Current Replacement Cost: \$44,000 at \$44,000 per 60-hp pump.

Preventative Maintenance: Regular inspection.

## Well #6: Meter Rebuild 5/09

Location: Well #6. Quantity: 1 Well meter rebuild.

Remaining Life: 0 Year (within next 12 months). Typical Useful Life: 7 Years.

**Comments:** The well meter for Well 'A' was installed in May 2009 when the new well was drilled to replace Well #6. Thereafter, the water company will need to budget for recurring Meter Rebuild costs thereafter. Cost new is about \$2,000, but can be rebuilt for about half that at about \$1000.

Current Replacement Cost: \$1,000 at \$1,000 per Well meter rebuild.

Preventative Maintenance: Regular inspection.

Well #6: Hypo-Chlorinator 10/14

Location: Well #6.Quantity: 1 Hypo-Chlorinator.Remaining Life: 2 Years.Typical Useful Life: 4 Years.

**Comments:** The Hypo-Chlorinator for Well #6 was installed in May 2009 when the new well was drilled to replace Well #6. They typically have a 3-year useful life because the chlorine is quite corrosive. The water company will need to budget for recurring Hypo-Chlorinator costs every 3-4 years. Replaced in Oct 2014. Cost about \$2,200.

Current Replacement Cost: \$2,200 at \$2,200 per Hypo-Chlorinator.

Preventative Maintenance: Regular inspection.

## Cisterns - Clean 7/02

| Location: Cisterns.   | Quantity: 7 Cistern - Clean.   |  |  |
|---|--------------------------------|--|--|
| Remaining Life: 1 Year.   | Typical Useful Life: 15 Years. |  |  |
| <b>Comments:</b> There are 7 underground brick cisterns that need periodic cleaning every 10 years or so. This was last done in July 2002 and the watermaster indicated in 2016 it may last another year (e.g. 15 year life) before needing cleaning. Cost is about \$1000 per cistern. |                                |  |  |
| Current Replacement Cost: \$7,000 at \$1,000 per Cistern - Clean.   |                                |  |  |
| Preventative Maintenance: Regular inspection.   |                                |  |  |

## Cisterns - Probe 3/11

| Location: Cisterns.   | Quantity: 1 Probe.                     |
|---|--|
| Remaining Life: 0 Year (within next 12 months).                       | Typical Useful Life: 4 Years.          |
| <b>Comments:</b> The cistern probe was replaced in May about \$1,500. | 2008. Replaced again in March 2011 for |
| Current Replacement Cost: \$1,500 at \$1,500 per Pro                  | bbe.                                   |
| Preventative Maintenance: Regular inspection.                         |  |

Radio System Hardware 5/13

| Radio System Ha   | I u wai c 5/15                        |  |  |
|---|---------------------------------------|--|--|
| Location: Premises.   | Quantity: 3 Communication system      |  |  |
|   | hardware per site.                    |  |  |
| Remaining Life: 7 Years.  | Typical Useful Life: 10 Years.        |  |  |
| <b>Comments:</b> The communication system hardware consists of probes (see above), radio transmitters, paging system, etc. For the electronics hardware, assume a typical 15-year useful life with \$9000-\$9500 replacement cost per site because was done in 2013 for \$28,000 for (3) sites. |                                       |  |  |
| Current Replacement Cost: \$28,500 at \$9,500 per Co  | mmunication system hardware per site. |  |  |
| Preventative Maintenance: Regular inspection.   | •                                     |  |  |
|   |                                       |  |  |

Alarm Agent 4/09

| Location: Premises.  | Quantity: 1 Alarm Agent.  |
|--|---|
| Remaining Life: 0 Year (within next 12 months).  | Typical Useful Life: 7 Years.   |
| <b>Comments:</b> An alarm agent was added in April 20 typical useful life at about 5-7 years. Cost shown has | 009 for \$4000 and wellmaster indicates been adjusted for inflation since prior cost. |
| Current Replacement Cost: \$4,500 at \$4,500 per A   | alarm Agent.  |
|  |   |

Drill & Install New Well 'A' (was #2)

| Din & instan New Well A (Was #2)   |   |  |
|--|---|--|
| Location: Premises.  | Quantity: 1 New well drilling, pump, and motor - cost adjusted for inflation since prior study. |  |
| Remaining Life: 0 Year (within next 12 months).  | Typical Useful Life: 30 Years.  |  |
| Comments: The water company will need reserves to eventually replace up to two wells every 30 years due to a variety of possible reasons including shifting substrate that may damage an existing well, changing aquifer patterns, or general well deterioration. \$225,000 is the total estimated cost, including new well drilling and new pump &motor for a 10" well to replace Well 'A' which is not as deep as the other two wells. |   |  |
| Current Replacement Cost: \$225,000 at \$225,000 per New well drilling, pump, and motor - cost adjusted for inflation since prior study  |   |  |
| Preventative Maintenance: Regular inspection.  |   |  |

Drill & Install New Well 'B' (was #5)

| Location: Premises.   | Quantity: 1 New well drilling, pump, and motor - cost adjusted for inflation since prior study. |  |  |
|---|---|--|--|
| Remaining Life: 15 Years.   | Typical Useful Life: 30 Years.  |  |  |
| Comments: The water company will need reserves to eventually replace up to two wells every 30 years due to a variety of possible reasons including shifting substrate that may damage an existing well, changing aquifer patterns, or general well deterioration. \$250K-\$300K is the total estimated cost, including new well drilling and new pump &motor for a 900' deep 10" steel well (steel is needed for wells over 600' deep). |   |  |  |
| Current Replacement Cost: \$273,180 at \$273,180 per New well drilling, pump, and motor - cost adjusted for inflation since prior study   |   |  |  |
| Preventative Maintenance: Regular inspection.   |   |  |  |
|   |   |  |  |

Drill & Install New Well 'C' (was #6)

| Quantity: 1 New well drilling, pump,                       |
|--|
| and motor - cost adjusted for inflation since prior study. |
| Typical Useful Life: 30 Years.                             |
|  |

Comments: The water company will need reserves to eventually replace up to two wells every 30 years due to a variety of possible reasons including shifting substrate that may damage an existing well, changing aquifer patterns, or general well deterioration. \$250K-\$300K is the total estimated cost, including new well drilling and new pump &motor for a 900' deep 10" steel well (steel is needed for wells over 600' deep).

**Current Replacement Cost:** \$273,180 at \$273,180 per New well drilling, pump, and motor - cost adjusted for inflation since prior study..

Preventative Maintenance: Regular inspection.

Well #2, #4, #5 - Wood Fencing

| Location: All 3 wells.  | Quantity: 222 LF.              |
|-------------------------|--------------------------------|
| Remaining Life: 1 Year. | Typical Useful Life: 10 Years. |

**Comments:** The three wells (Well #2, 4, 5) have had new wood fences installed over the past 10 years with Well #5's fence about 10 years ago and Well #2's fence about 9 year ago. They are grouped here because of variable aging rates and useful life reduced to 10 years in 2009 because they haven't been holding up well.

Current Replacement Cost: \$7,330 at \$33 per LF.

**Preventative Maintenance:** To prevent dry rot, eliminate all wood-to-earth contact at posts and remove plant growth on wood fences.

Well #2, #4, #5 - Split Rail Fence

|                         | ,                              |
|-------------------------|--------------------------------|
| Location: All 3 wells.  | Quantity: 294 LF.              |
| Remaining Life: 1 Year. | Typical Useful Life: 10 Years. |

Comments: Each well has a semi-circle of split-rail/barbed wire fence surrounding the wells to protect the plants serving as a visual shield. Over time, this fencing will need replacement as some of the posts will be dry-rotted and some of the cross-boards will also deteriorate, whether by termites or dryrot. Wells #2 & #4 have 90 LF of split rail fence, while Well #5 has about 114 LF. Useful life decreased to 10 years in 2009 because have needed some repairs already.

Current Replacement Cost: \$5,440 at \$19 per LF.

Preventative Maintenance: Regular inspection.

Fire Hydrants (15) - Replace

Location: Along roadsides.

Quantity: 1 Fire hydrant.

Remaining Life: 0 Year (within next 12 months).

Typical Useful Life: 1 Year.

**Comments:** The company has 15 fire dry-barrel hydrants designed for freezing areas, but not necessary here. Average life expectancy of 30 years for this type of hydrant, with some failing sooner and some later. Because hydrants may fail at different rates, the water company plans to budget for replacement of about (1-2) hydrant per year at \$6,000 each until all replaced with wet-barrel hydrants that are easier to maintain. Thereafter, wet barrel hydrants only require cartridge replacement.

Current Replacement Cost: \$6,000 at \$6,000 per Fire hydrant.

Preventative Maintenance: Regular inspection.

#### **Shutoff Valves**

| Location: Along roadsides.                      | Quantity: 1 Gate valve.      |
|---|------------------------------|
| Remaining Life: 0 Year (within next 12 months). | Typical Useful Life: 1 Year. |

**Comments:** There are various shutoff valves near fire hydrants and elsewhere. They require about \$5,000 each to replace (for valve itself and backhoe work & labor). Assume an average failure rate of 1 per year, although, in reality, there may be more one year and none in another year. Replaced (4) in 2015 and have about 20 left. By the time all are done, older ones will start needing replacement.

**Current Replacement Cost:** \$5,000 at \$5,000 per Gate valve.

Preventative Maintenance: Regular inspection.

#### **Residential Water Meters**

| Location: Each lot.                             | Quantity: 3 Water meter.     |  |
|---|------------------------------|--|
| Remaining Life: 0 Year (within next 12 months). | Typical Useful Life: 1 Year. |  |

**Comments:** The water company has been replacing residential water meters at a rate of about 3 per year recently with about 20 already replaced. The cost to replace each water meter is \$550 for the meter and about \$200 for labor, totaling \$750. At \$2,250/year, that represents an assumed failure rate of 3 meters per year.

Current Replacement Cost: \$2,250 at \$750 per Water meter.

Preventative Maintenance: Regular inspection.

Cistern Access Road Chip Seal 12/12

Location:End of Fawn Canyon Road.Quantity: 4,200 SF approximately.Remaining Life:0 Year (within next 12 months).Typical Useful Life: 6 Years.

Comments: The access road to the cisterns is exclusively used for the purpose of maintaining the cisterns and, as such, should be funded via the water company's budget rather than the Oak Trails HOA budget. Water Company did a double-chipseal in Dec 2012 for \$3700 (assume always done in conjunction with other paving). Ramsey Paving suggests double chipseal. Midco indicated \$0.25/SF to chipseal smaller areas, but assume higher cost due to poor condition and extensive prep.

Current Replacement Cost: \$4,040 Per prior cost adjusted for inflation.

Preventative Maintenance: Regular inspection.

## After Your Reserve Study is Prepared...

**REVIEW:** The results should be evaluated by your Board of Directors to determine:

- If regular assessments need to be increased or decreased.
- If special assessments will be needed to fund future repairs or replacement.
- Cost and estimated/projected timing of repairs or replacement in the future.
- If reserve funds will not be expended for several years, consideration should be given to higher-yield medium-term investment.

**APPROVE:** Indicate approval of the <u>reserve funding plan</u> in the water company minutes.

**BUDGET:** The Board should also incorporate the results of the reserve study into the annual pro-forma operating budget to ensure that sufficient reserves will be available to fund long-term capital replacement expenditures.

<u>DISTRIBUTE</u>: To comply with California Civil Code 1365, the Board shall prepare and distribute to all its members the following documents not less than 30 days nor more than 90 days prior to the beginning of the water company's fiscal year:

A pro forma operating budget which shall include all of the following:

- The estimated revenue and expenses on an accrual basis.
- A summary of the water company's reserves based upon the most recent review or study conducted pursuant to Section 1365.5, including the current estimated replacement cost, estimated remaining life, and estimated useful life of each major component See Page 9.
- The current estimate of the amount of cash reserves necessary to repair, replace, restore or maintain the major components: \$548,395.
- The current amount of accumulated cash reserves actually set aside: \$388,021.
- The current deficiency in reserve funding expressed on a per Lot basis: \$2,227/Lot.
- The percentage of actual cash reserves set aside versus estimated cash reserves required (percent funded estimate): 70.8%.
- A statement as to whether the board of directors has determined or anticipates that the levy
  of one or more of special assessments will be required to repair, replace, or restore any major
  component.

In lieu of the distribution of the pro forma operating budget required above, the board may elect to distribute a summary of the *pro forma* operating budget to all its members with a written notice that the *pro forma* operating budget is available at the business office of the water company or at another suitable location within the boundaries of the development and that the copies will be provided upon request and at the expense of the water company.

California Civil Code 1365.5 requires annual reviews of reserve status in subsequent Years.

<u>**DISCLOSE:**</u> Civil Code 1365.2.5 requires the Board to distribute the "<u>Assessment and Reserve Funding Disclosure Summary</u>" to all owners. A sample form with supplement by Attorney James Smith follows. We have inserted calculation results from the reserve analysis to address Questions #6 and #7. All other questions are designed for the Board to fill in.

## **Assessment And Reserve Funding Disclosure Summary**

## Oak Trails Estates Mutual Water Company

| (S  | <b>ample</b> – Questions #1-4 to be c  | ompleted by Board  | of Directors, #6 &   | 7 already have your data filled in)  |  |  |
|---|--|--|--|--|--|--|
| owner<br>year.<br>owner   | s in homeowner associations not less<br>The Summary is to be provided with,  | than thirty (30) days<br>and accompany, the Pr<br>ection 1365. Water C | nor more than ninety (<br>oforma Operating Budg                        | ng Disclosure Summary be distributed to al 90) days prior to the beginning of the fisca get or Summary thereof that is delivered to al npt from this requirement, but the disclosure |  |  |
| (1)   | The current assessment per ownership interest is \$ per Note: If assessments vary by the size or type cownership interest, the assessment applicable to this ownership interest may be found on page of the attached summary.  |  |  |  |  |  |
| (2)   | Additional regular or special assessments that have already been scheduled to be imposed or charged, regardless of the purpose, if they have been approved by the board and/or members:  |  |  |  |  |  |
|   | per mont<br>(If assessments are  |  | vnership interest<br>th or year<br>e variable, see note<br>ely below): | Purpose of the assessment:   |  |  |
|   |  |  | 64<br>(Sa)   |  |  |  |
|   |  | T 1  |  |  |  |  |
|   |  | Total:   |  |  |  |  |
|   | If assessments vary by the size or typattached report.   | be of Lot, the assessme  | nt applicable to this ow   | nership interest may be found on page  |  |  |
| (3)   | Based upon the most recent reserve study and other information available to the Board of Directors, will currently projected reserve account balances be sufficient at the end of each year to meet the Water company's obligation for repair and/or replacement of major components during the next 30 Years?  Yes No |  |  |  |  |  |
| (4) If the answer to #3 is no, what additional assessments or other contributions to reserves would be necessary to ensure that sufficient reserve funds will be available each year during the next 30. Years that have not yet been approved by the board or the members. |  |  |  |  |  |  |
| Approximate date assessment will be due:  |  | Amount   | per Ownership Interest per   |  |  |  |
|   |  |  |  | month or year::  |  |  |
|   | · · · · · · · · · · · · · · · · · · ·  |  |  |  |  |  |
|   |  | 3 3  | Total:   |  |  |  |
| (5)   | All major components are included  | in the reserve study an  | d are included in its cal  | culations.   |  |  |
| (6)   |  |  |  | 1365.2.5, the estimated amount required in   |  |  |
|   |  |  |  | end of the current fiscal year is \$548,395, forporation - For the fiscal year beginning   |  |  |
|   | •  |  |  | ear is \$388.021 resulting in reserves   |  |  |

being **70.8%** funded (\$388,021 divided by \$548,395) at this date and resulting in an estimated reserve deficiency (difference between 100% funded amount and actual reserves) on a per-Lot basis of **\$2,227/Lot**. If an alternative, but generally accepted,

method of calculation is also used, the required reserve amount is \$\_\_\_\_\_\_ (If so, see attached explanation.)

Oak Trails Estates Mutual Water Company

Based on the method of calculation in paragraph (4) of subdivision (b) of Section 1365.2.5 of the Civil Code, the estimated amount required in the reserve fund at the end of the next five budget Years is \$ (Refer to line #1 in the table below), and the projected reserve fund cash balance in each of those Years, taking into account only assessments already approved and other known revenues, is \$ (Refer to line #2 in the table below), leaving the reserve at (Refer to line #3 in the table below), percent funded. If the reserve funding plan approved by the Water company is implemented, the projected reserve fund cash balance in each of those Years will be \$ (Refer to line #4 in the table below), leaving the reserve at (Refer to line #5 in the table below), percent funded.

| End of Fiscal Year That Begins in→  | 2016      | 2017      | 2018      | 2019      | 2020      |
|---|-----------|-----------|-----------|-----------|-----------|
| Estimated amount required in reserves     (100% Funded Amount)                  | \$559,527 | \$371,883 | \$435,136 | \$506,801 | \$501,574 |
| 2. Projected Reserve Fund Cash Balance (Only assessments already approved)      | \$174,009 | \$220,660 | \$282,775 | \$349,373 | \$337,343 |
| 3. Projected Percent Funded Estimate (Only assessments already approved)        | 31.1%     | 59.3%     | 65.0%     | 68.9%     | 67.3%     |
| 4. Projected Reserve Fund Cash Balance (If reserve funding plan is implemented) | \$156,625 | \$187,705 | \$236,124 | \$290,967 | \$269,189 |
| 5. Projected Percent Funded Estimate (If reserve funding plan is implemented)   | 28.0%     | 50.5%     | 54.3%     | 57.4%     | 53.7%     |

Fund balance & Percent funded projections in the #4 & #5 calculations above assume the optimized cash flow analysis plan is adopted.

NOTE: The financial representations set forth in the Summary are based on the best estimates of the preparer at that time. The estimates are subject to change. Inflation rate applied to future replacement costs: 3.00%, Interest rate on reserve funds: 0.50%.

## SUPPLEMENT TO ASSESSMENT AND RESERVE FUNDING DISCLOSURE SUMMARY

[Civil Code section 1365.2.5(b)(3)]

Due to factors beyond the control of the Directors, including but not limited to the rate of inflation, the rate at which the major components actually deteriorate, unanticipated damage to the major components, fluctuations in material and labor costs and changes in building codes and regulations, the accuracy of the information set forth in paragraphs 3, 4 and 5 above is not, and cannot be, guaranteed. Depending upon the accuracy of the present and future assumptions used in providing the information in paragraphs 3, 4 and 5, the information and conclusions set forth in said paragraphs may not be correct. Therefore, any person reviewing this Assessment and Reserve Funding Disclosure Summary should not, without conducting their own independent investigation and analysis, rely upon the accuracy of the information set forth in paragraph 3, 4 and 5.

Please note, for purposes of this Assessment and Reserve Funding Disclosure, the words and phrases stated below are given the following meaning:

- 1. "Estimated remaining useful life" means the time reasonably calculated to remain before a major component will require replacement.
- 2. "Major component" has the meaning used in section 1365.5. Components with an estimated remaining useful life of more than thirty (30) Years may be included in a study as a capital asset or disregarded from the reserve calculation, so long as the decision is revealed in the reserve study report and reported in the Assessment and Reserve Funding Disclosure Summary.

#### "Caution"

The "Supplement to Assessment and Reserve Funding Disclosure Summary" shown above is provided as a courtesy by James H. Smith, Esq. of the law firm of Grokenberger & Smith. Telephone: (805) 965-7746. Your Water company's Governing Documents and/or changes in the law may require this form to be modified.

The data filled in question #6 & #7 above was derived from Stone Mountain Corporation's reserve study for the water company.