

# **Monterey Bay Area Self Insurance Authority**

**An Actuarial Review of the  
Workers' Compensation Program**

**BAY ACTUARIAL CONSULTANTS  
Moraga, California  
February 27, 2021**

# Bay Actuarial Consultants

February 27, 2021

Mr. Conor Boughey, ARM  
Vice President  
Alliant Insurance Services  
100 Pine Street, 11th Floor  
San Francisco, CA 94111

Dear Mr. Boughey:

We are pleased to present Bay Actuarial's Actuarial Review of the Monterey Bay Area Self Insurance Authority's workers' compensation program. We appreciate the opportunity to serve the Authority.

Please call me at (925) 377-5269 if you have any questions.

Respectfully,

BAY ACTUARIAL CONSULTANTS



Jack Joyce, FCAS, MAAA  
Principal

# Monterey Bay Area Self Insurance Authority

## An Actuarial Review of the Workers' Compensation Program

### Table of Contents

|                                                        | <u>Page</u> |
|--------------------------------------------------------|-------------|
| Introduction                                           | 2           |
| <i>Background &amp; Purpose</i>                        | 3           |
| <i>Conditions &amp; Limitations</i>                    | 4           |
| <i>Structure of the Report</i>                         | 4           |
| Management Summary                                     | 5           |
| <i>Projected 2021-22 Losses Excluding 4850</i>         | 6           |
| <i>Projected Rates of Loss Excluding 4850</i>          | 7           |
| <i>Projected Total Losses Including 4850</i>           | 8           |
| <i>Rate Changes</i>                                    | 8           |
| <i>Temporary Disability Benefits Data</i>              | 9           |
| <i>The Authority's Past Rates of Loss</i>              | 9           |
| <i>Estimated Number of Indemnity Claims</i>            | 10          |
| <i>Average Claim Amount</i>                            | 10          |
| <i>Liability for Unpaid Losses</i>                     | 11          |
| <i>Loss Breakout as of 6/30/21</i>                     | 12          |
| <i>Short-Term Liability</i>                            | 12          |
| <i>Comparison with Last Year's Estimates</i>           | 13          |
| <i>Reconciliation with 12/31/20 Liability Estimate</i> | 13          |
| <i>Interest Rates</i>                                  | 14          |
| <i>COVID 19</i>                                        | 14          |
| Technical Approach                                     | 15          |
| Summary Exhibits                                       | 18          |
| Fiscal Year End Exhibits                               | 25          |
| Limited Ultimate Loss Exhibits                         | 38          |
| Gross Loss Exhibits                                    | 45          |
| Future Loss Exhibits                                   | 60          |
| Discounting Exhibits                                   | 63          |
| Claims Data                                            | 70          |

# **Monterey Bay Area Self Insurance Authority**

## **An Actuarial Review of the Workers' Compensation Program**

### **Introduction**

# Monterey Bay Area Self Insurance Authority

## An Actuarial Review of the Workers' Compensation Program

### Introduction

#### Background & Purpose

The Monterey Bay Area Self Insurance Authority ("MBASIA") self-insures its workers' compensation claims. MBASIA members, instead of MBASIA, currently pay all Section 4850 workers' compensation benefits and a large portion of the temporary disability benefits ("TD") directly. Therefore the Authority itself currently has no liability for unpaid 4850 and only a very small TD liability, which we have estimated conservatively. Because of the way 4850 is handled we provided two sets of recommended contribution rates. The first set would cover all workers' compensation benefits. These rates could be used to compare excess insurance quotes that cover all benefits. The second set of rates covers everything except 4850. These are for projecting the Authority's internal funding requirements. We also included, as management information, a third set of contribution rates. The third set excludes all 4850 and all TD benefits. This report covers the following topics:

- 1) **Projected 2021-22 Losses & Rates of Loss.** It includes a projection of the losses expected to be incurred during 2021-22. It also expresses this as a rate of loss per \$100 of payroll. Rates are based on projected 2021-22 payroll of **\$66,271,239**, a **3.9%** increase over the projected 2020-21 payroll of **\$63,783,676**.
- 2) **Unpaid Losses.** It includes an estimate of the Authority's liability for unpaid losses as of 12/31/20 and a projection to 6/30/21.
- 3) **Discounting.** The projected 2021-22 losses and the Authority's liabilities are discounted at **1.0%** interest. Discounting takes the time value of money into account, since workers' compensation costs are when accidents occur but the corresponding costs are paid out over an extended timeframe.

- 4) **Quantification of Uncertainty.** It includes an analysis of the rates of loss and of the liability in terms of “probability levels.”
- 5) **Short-Term versus Long-Term.** The liabilities are broken into their short-term and long-term components.

### **Conditions & Limitations**

This report is for the Authority’s internal use. The Authority may provide a copy to its financial auditors. Bay Actuarial does not authorize any other use. In particular, those interested in providing insurance to the Authority must perform their own actuarial analysis and may not rely upon our work.

Risk Management Services Company and MBASIA provided the loss and payroll data. We did not audit this data and are not responsible for its accuracy. The accuracy and relevance of the conclusions and the reasonableness of the recommendations depend upon the accuracy of the underlying data. We use the term “losses” to refer to all costs that can be tied to a specific claim. These include loss payments, attorney’s fees, and other expenses linked to a specific claim.

The actuarial projections in this report are estimates. Uncertainty is unavoidable because many of the events that will determine actual claims costs will take place in the future. These events include, but are not limited to, future legislation or ballot initiatives that may change statutory benefit levels or the workers’ compensation laws, changes in the rate of inflation, and the outcomes of future administrative proceedings and litigation. Our projections are based upon the Authority’s historical experience. We did not anticipate any extraordinary changes in the various factors that might affect the future cost of claims. We used actuarial methods that should produce reasonable results given current information. There is no guarantee, express or implied, that losses will develop as projected in this report.

### **Structure of the Report**

The rest of this report comprises nine sections: the *Management Summary*, the *Technical Approach* section, the *Summary Exhibits*, the *Fiscal Year End Exhibits*, the *Limited Ultimate Loss Exhibits*, the *Gross Loss Exhibits*, the *Future Loss Exhibits*, the *Discounting Exhibits*, and the *Claims Data Exhibits*.

# **Monterey Bay Area Self Insurance Authority**

## **An Actuarial Review of the Workers' Compensation Program**

### **Management Summary**

# Monterey Bay Area Self Insurance Authority

## An Actuarial Review of the Workers' Compensation Program

### Management Summary

#### Projected 2021-22 Losses Excluding 4850

Table I shows the MBASIA's projected losses for 2021-22 at various self-insured retentions ("SIR's) ranging between \$250,000 and \$1,000,000. These amounts are not discounted for the time value of money and do not include 4850 benefits, claims handling fees, or program administration or excess insurance costs. This projection covers every claim with a date of loss between 7/1/21 and 6/30/22.

| <b>Table I: Projected 2021-22 Undiscounted Losses<br/>(Includes All Benefits Except 4850)</b> |                    |                    |                    |                    |                    |                        |
|-----------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------------|
| Probability<br>Level                                                                          | \$250,000<br>SIR   | \$300,000<br>SIR   | \$350,000<br>SIR   | \$500,000<br>SIR   | \$1,000,000<br>SIR | Unlimited<br>Retention |
| <b>Central Estimate</b>                                                                       | <b>\$4,167,058</b> | <b>\$4,488,793</b> | <b>\$4,747,986</b> | <b>\$5,313,645</b> | <b>\$6,158,939</b> | <b>\$6,812,654</b>     |
| 60%                                                                                           | 4,355,215          | 4,695,606          | 4,969,780          | 5,568,191          | 6,460,039          | 7,144,689              |
| 70%                                                                                           | <b>\$4,683,302</b> | 5,067,202          | 5,378,140          | 6,065,652          | 7,113,587          | 7,945,689              |
| 75%                                                                                           | 4,871,801          | 5,281,076          | 5,613,503          | 6,353,312          | 7,493,536          | 8,413,641              |
| 80%                                                                                           | 5,087,502          | 5,526,125          | 5,883,444          | 6,684,015          | 7,932,014          | 8,955,562              |
| 90%                                                                                           | 5,684,919          | 6,206,402          | 6,634,199          | 7,607,702          | 9,165,199          | 10,489,162             |

We project that 4850 benefits will total **\$170,000** in 2021-22. These are excluded from the projected losses in Table I because those benefits are paid directly by the members and not by the MBASIA. Claim payments can stretch out for many years beyond the date of a loss so projections like this are typically "discounted" to reflect the time value of money. An interest rate of **1.0%** appears plausible in the current financial environment. Discounting at **1.0%** interest would reduce each of the amounts in Table I by between **5.1%** and **6.3%**.

The table shows "actuarial central estimates" plus estimates at higher probability levels. For example, we estimate that there is a 70% probability that the actual 2021-22 \$250,000 SIR losses, excluding 4850, will be less than **\$4,683,302**.

Loss projections like those in this table move in tandem with the actual exposure to loss. Exposure is best measured by total number of hours worked by covered employees. This statistic, hours worked, is rarely available to us so we use what is available, the total covered payroll, instead. The average annual increase in estimated total covered payroll over the last two years was **3.9%**, so the projected 2021-22 payroll is based on a **3.9%** increase.

We estimate that the actual exposure as measured by total hours worked rose **1.0%** between 2019-20 and 2020-21, and project that there will be no increase in hours worked between 2020-21 and 2021-22.

### Projected Rates of Loss excluding 4850

Tables II shows MBASIA's projected rates of loss per \$100 of covered payroll. It was constructed by dividing the Table I total loss projections by the projected payroll and then discounting to present value at a **1.0%** interest rate. The multiplicative present value factors for **1.0%** interest range between **0.937** and **0.949**.

All rates are based on projected 2021-22 payroll of **\$66,271,239**.

| <b>Table II: Projected 2021-22 Discounted Loss Rates<br/>(1.0% interest rate – All Benefits Except 4850)</b> |                                     |               |               |               |                 |                     |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------|---------------|---------------|-----------------|---------------------|
|                                                                                                              | Projected Loss per \$100 of Payroll |               |               |               |                 |                     |
| Probability Level                                                                                            | \$250,000 SIR                       | \$300,000 SIR | \$350,000 SIR | \$500,000 SIR | \$1,000,000 SIR | Unlimited Retention |
| <b>Central Estimate</b>                                                                                      | <b>\$5.97</b>                       | <b>\$6.41</b> | <b>\$6.77</b> | <b>\$7.55</b> | <b>\$8.73</b>   | <b>\$9.63</b>       |
| 60%                                                                                                          | 6.24                                | 6.71          | 7.09          | 7.91          | 9.15            | 10.10               |
| 70%                                                                                                          | <b>\$6.71</b>                       | 7.24          | 7.67          | 8.62          | 10.08           | 11.23               |
| 75%                                                                                                          | 6.98                                | 7.55          | 8.00          | 9.03          | 10.62           | 11.90               |
| 80%                                                                                                          | 7.29                                | 7.90          | 8.39          | 9.50          | 11.24           | 12.66               |
| 90%                                                                                                          | 8.14                                | 8.87          | 9.46          | 10.81         | 12.99           | 14.83               |
| <b>20-21 Central Estimate</b>                                                                                | <b>\$5.62</b>                       | <b>\$6.04</b> | <b>\$6.37</b> | <b>\$7.09</b> | <b>\$8.13</b>   | <b>\$9.14</b>       |
| <b>Change in C.E.</b>                                                                                        | <b>+6.2%</b>                        | <b>+6.1%</b>  | <b>+6.3%</b>  | <b>+6.5%</b>  | <b>+7.4%</b>    | <b>+5.4%</b>        |

The next to last row in Table I shows last year's projected 2020-21 central estimate rates. The bottom row shows the percentage changes.

## Projected 2021-22 Total Losses Including 4850

The central estimates in Table III each include the **\$170,000** of 4850 benefits that Table I excludes.

| <b>Table III: Projected 2021-22 Undiscounted Losses<br/>(Includes All Benefits Including 4850)</b> |                    |                    |                    |                    |                    |                     |
|----------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| Probability Level                                                                                  | \$250,000 SIR      | \$300,000 SIR      | \$350,000 SIR      | \$500,000 SIR      | \$1,000,000 SIR    | Unlimited Retention |
| <b>Central Estimate</b>                                                                            | <b>\$4,337,058</b> | <b>\$4,658,793</b> | <b>\$4,917,986</b> | <b>\$5,483,645</b> | <b>\$6,328,939</b> | <b>\$6,982,654</b>  |
| 60%                                                                                                | 4,532,891          | 4,873,438          | 5,147,722          | 5,746,334          | 6,638,350          | 7,322,975           |
| 70%                                                                                                | 4,874,363          | 5,259,107          | 5,570,703          | 6,259,711          | 7,309,938          | 8,143,962           |
| 75%                                                                                                | 5,070,552          | 5,481,081          | 5,814,492          | 6,556,574          | 7,700,374          | 8,623,591           |
| 80%                                                                                                | 5,295,052          | 5,735,411          | 6,094,099          | 6,897,858          | 8,150,954          | 9,179,035           |
| 90%                                                                                                | 5,916,842          | 6,441,452          | 6,871,734          | 7,851,096          | 9,418,178          | 10,750,904          |

Table IV shows projected rates of loss corresponding to Table III.

| <b>Table IV: Projected 2021-22 Discounted Loss Rates<br/>(1.0% interest rate – Full Rate including 4850)</b> |                                     |               |               |               |                 |                     |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------|---------------|---------------|-----------------|---------------------|
|                                                                                                              | Projected Loss per \$100 of Payroll |               |               |               |                 |                     |
| Probability Level                                                                                            | \$250,000 SIR                       | \$300,000 SIR | \$350,000 SIR | \$500,000 SIR | \$1,000,000 SIR | Unlimited Retention |
| <b>Central Estimate</b>                                                                                      | <b>\$6.21</b>                       | <b>\$6.66</b> | <b>\$7.01</b> | <b>\$7.79</b> | <b>\$8.97</b>   | <b>\$9.87</b>       |
| 60%                                                                                                          | 6.49                                | 6.96          | 7.34          | 8.17          | 9.41            | 10.35               |
| 70%                                                                                                          | 6.98                                | 7.52          | 7.94          | 8.90          | 10.36           | 11.51               |
| 75%                                                                                                          | 7.26                                | 7.83          | 8.29          | 9.32          | 10.91           | 12.19               |
| 80%                                                                                                          | 7.58                                | 8.20          | 8.69          | 9.80          | 11.55           | 12.98               |
| 90%                                                                                                          | 8.47                                | 9.20          | 9.80          | 11.16         | 13.34           | 15.20               |
| <b>20-21 Central Estimate</b>                                                                                | <b>\$5.80</b>                       | <b>\$6.22</b> | <b>\$6.56</b> | <b>\$7.27</b> | <b>\$8.31</b>   | <b>\$9.33</b>       |
| <b>Change in C.E.</b>                                                                                        | <b>+7.1%</b>                        | <b>+7.1%</b>  | <b>+6.9%</b>  | <b>+7.2%</b>  | <b>+7.9%</b>    | <b>+5.8%</b>        |

### Rate Changes

The unlimited central estimate rate of **\$9.87** in Table IV is up 5.8% from last year.

## Temporary Disability Benefits Data

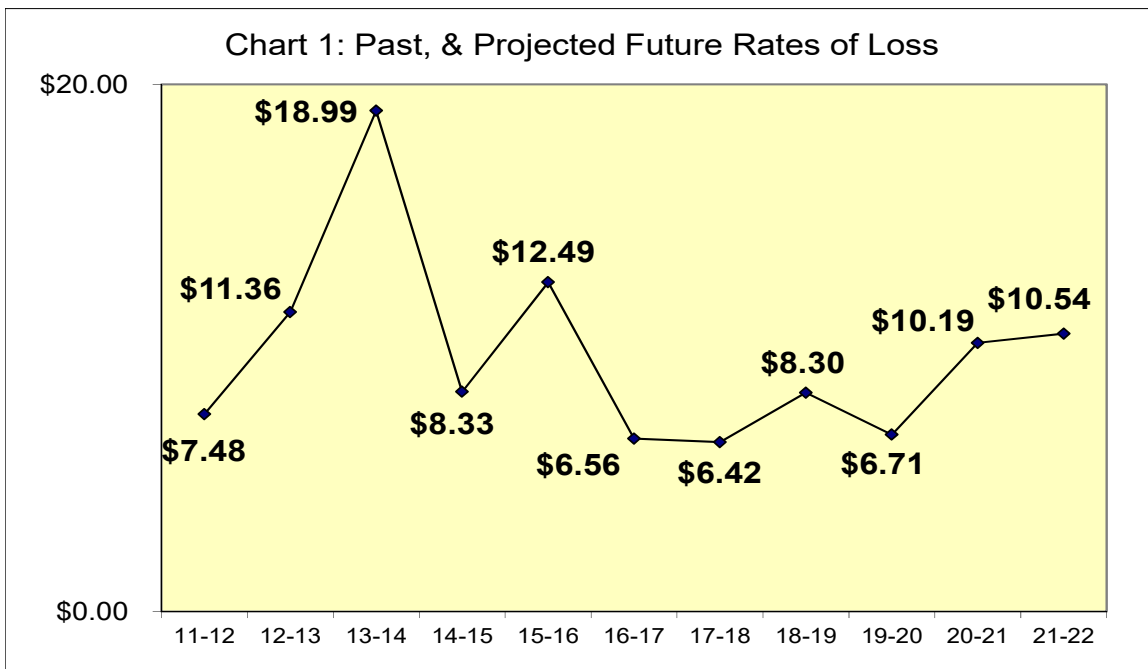
As management information we also provide Table V, which shows rates that exclude all TD and all 4850 benefits. These Table V rates are based on the assumption that TD will cost **\$440,000** in 2021-22 and that 4850 will cost **\$170,000**.

| Table V: Projected 2021-22 Discounted Loss Rates<br>(1.0% interest rate – 4850 & TD Excluded) |                                     |               |               |               |                 |                     |
|-----------------------------------------------------------------------------------------------|-------------------------------------|---------------|---------------|---------------|-----------------|---------------------|
| Probability Level                                                                             | Projected Loss per \$100 of Payroll |               |               |               |                 |                     |
|                                                                                               | \$250,000 SIR                       | \$300,000 SIR | \$350,000 SIR | \$500,000 SIR | \$1,000,000 SIR | Unlimited Retention |
| <b>Central Estimate</b>                                                                       | <b>\$5.34</b>                       | <b>\$5.79</b> | <b>\$6.14</b> | <b>\$6.93</b> | <b>\$8.10</b>   | <b>\$9.01</b>       |
| 60%                                                                                           | 5.58                                | 6.05          | 6.43          | 7.26          | 8.50            | 9.45                |
| 70%                                                                                           | 6.00                                | 6.53          | 6.96          | 7.91          | 9.36            | 10.51               |
| 75%                                                                                           | 6.24                                | 6.81          | 7.26          | 8.28          | 9.86            | 11.13               |
| 80%                                                                                           | 6.52                                | 7.12          | 7.61          | 8.71          | 10.44           | 11.84               |
| 90%                                                                                           | 7.28                                | 8.00          | 8.58          | 9.92          | 12.06           | 13.87               |

Only a small but unknown portion of the unpaid TD is a true MBASIA liability, since most TD is paid directly by the cities. The small MBASIA TD liability is estimated very conservatively.

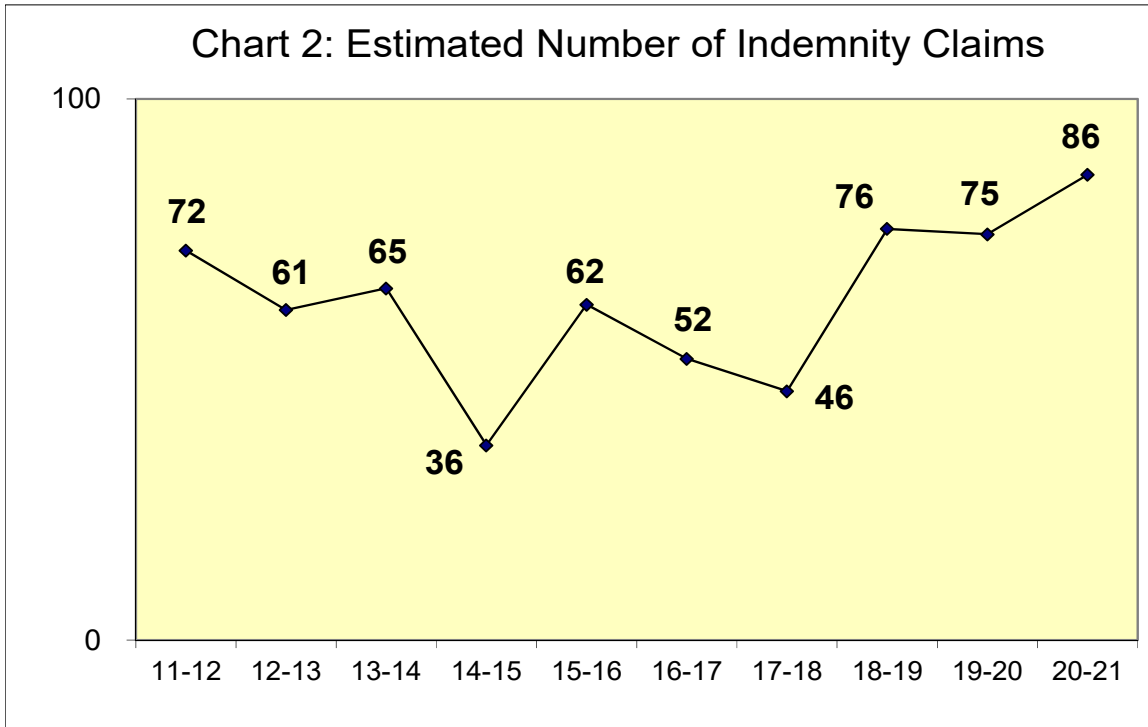
## The Authority's Past Rates of Loss

Chart 1 shows the Authority's estimated past unlimited, undiscounted loss rates (no reduction for losses ceded to excess insurers). The loss rate is ultimate total loss per \$100 of payroll. **\$10.54** is the undiscounted central estimate unlimited rate for 2021-22. The rates in the chart include all 4850 and all TD.



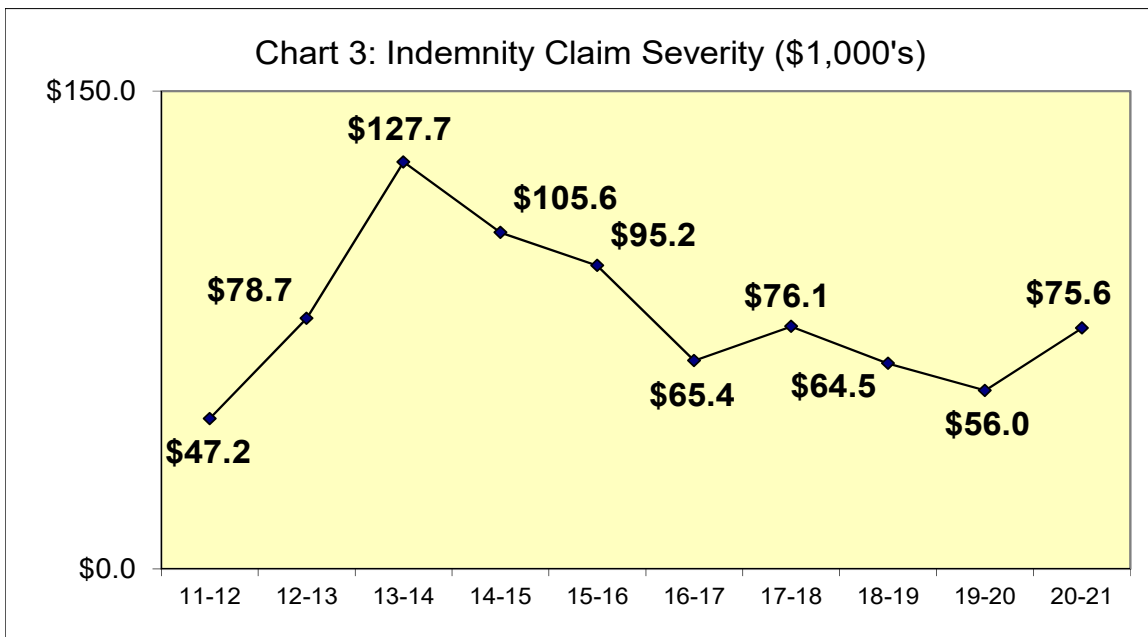
### Estimated Number of Indemnity Claims

Claim frequency is an important diagnostic statistic. Chart 2 shows the estimated number of indemnity claims incurred over the last ten years.



### Average Claim Amount (“Severity”)

Chart 3 shows the average indemnity claim amount, calculated by dividing the estimated annual losses by the number of indemnity claims. The values in this chart are based on unlimited loss data, so they include the portions of claims are ceded to excess insurers. The Chart 3 severities include 4850 and TD.



## Liability for Unpaid Losses

We estimate that the liability for unpaid losses was **\$15,103,770** on 12/31/20 and project that it will be **\$15,675,027** on 6/30/21. The discounted values are about 5.3% lower. Table VI shows the estimated 12/31/20 liability. Tables VI, VII, and VIII do not include the unpaid 4850 benefits, which are a very small portion.

| <b>Table VI: Estimated Liability for Unpaid Losses @ 12/31/20</b> |                     |                             |
|-------------------------------------------------------------------|---------------------|-----------------------------|
| Probability Level                                                 | Undiscounted Losses | Discounted at 1.0% Interest |
| <b>Central Estimate</b>                                           | <b>\$15,103,770</b> | <b>\$14,297,433</b>         |
| 60%                                                               | 15,405,845          | 14,583,381                  |
| 70%                                                               | 15,858,959          | 15,012,304                  |
| 75%                                                               | 16,161,034          | 15,298,253                  |
| 80%                                                               | 16,463,110          | 15,584,202                  |
| 90%                                                               | 17,218,298          | 16,299,073                  |

Table VII shows the projection of the 6/30/21 liability.

| <b>Table VII: Projected 6/30/21 Liability</b> |                     |
|-----------------------------------------------|---------------------|
| <b>12/31/20 Liability Central Estimate</b>    | <b>\$15,103,770</b> |
| Projected Payments 1/1/21 to 6/30/21          | -1,500,660          |
| Projected New Losses 1/1/21 to 6/30/21        | +2,071,917          |
| <b>Projected 6/30/21 Central Estimate</b>     | <b>\$15,675,027</b> |

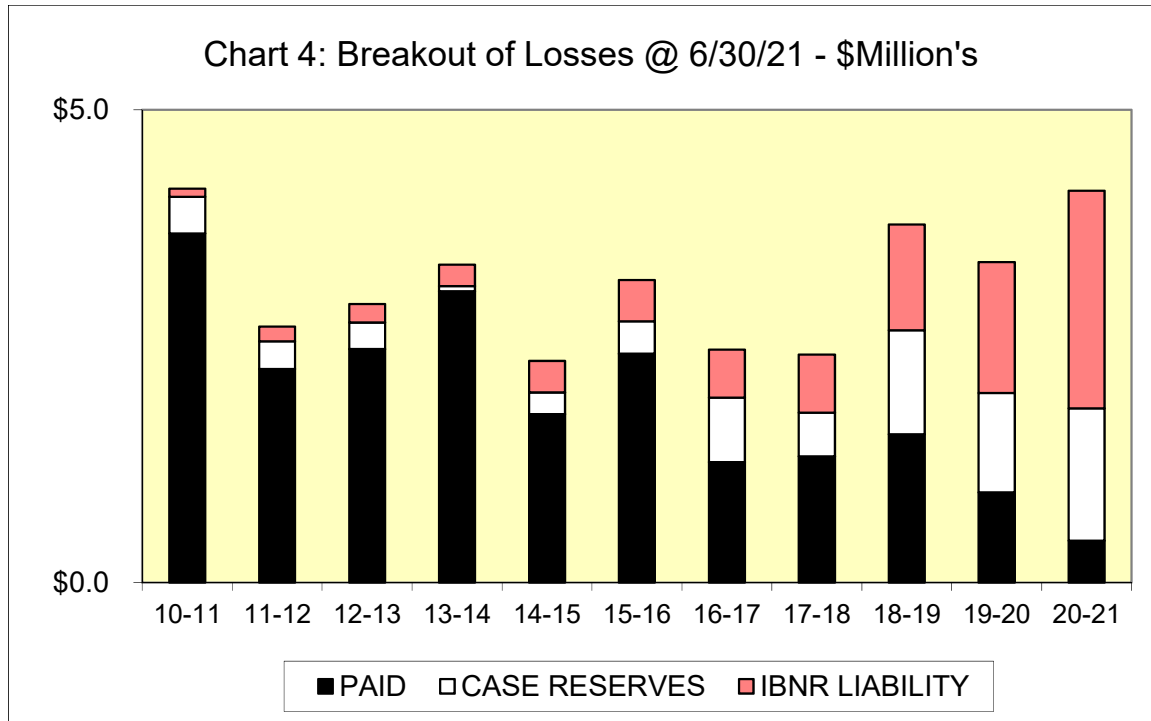
Table VIII shows the projected probability levels for the projected 6/30/21 liability. These probability levels are based on the assumption that the claims payments over the next six months and the new losses that will occur will match the projections shown in Table VII.

| <b>Table VIII: Projected Estimate of 6/30/21 Liability</b> |                     |                             |
|------------------------------------------------------------|---------------------|-----------------------------|
| Probability Level                                          | Undiscounted Losses | Discounted at 1.0% Interest |
| <b>Central Estimate</b>                                    | <b>\$15,675,027</b> | <b>\$14,844,251</b>         |
| 60%                                                        | 15,988,528          | 15,141,136                  |
| 70%                                                        | 16,458,779          | 15,586,463                  |
| 75%                                                        | 16,772,279          | 15,883,348                  |
| 80%                                                        | 16,929,029          | 16,031,791                  |
| 90%                                                        | 17,869,531          | 16,922,446                  |

There is a variation of Table VIII (on page 21) that shows the *current* 12/31/20 estimates of these 6/30/21 probability levels that takes into account all possible outcomes of claims expenditures and new losses over the next six months. The probability levels on page 21 are significantly higher than those in Table VIII.

## Loss Breakout as of 6/30/21

The Authority's liability of **\$15,675,027** is projected to comprise **\$7,473,560** in case reserves for known claims and an IBNR liability of **\$8,201,467**. Chart 4 breaks out the estimated total program year losses for 2010-11 through 2020-21 into their components: losses paid, case reserves, and IBNR liability.



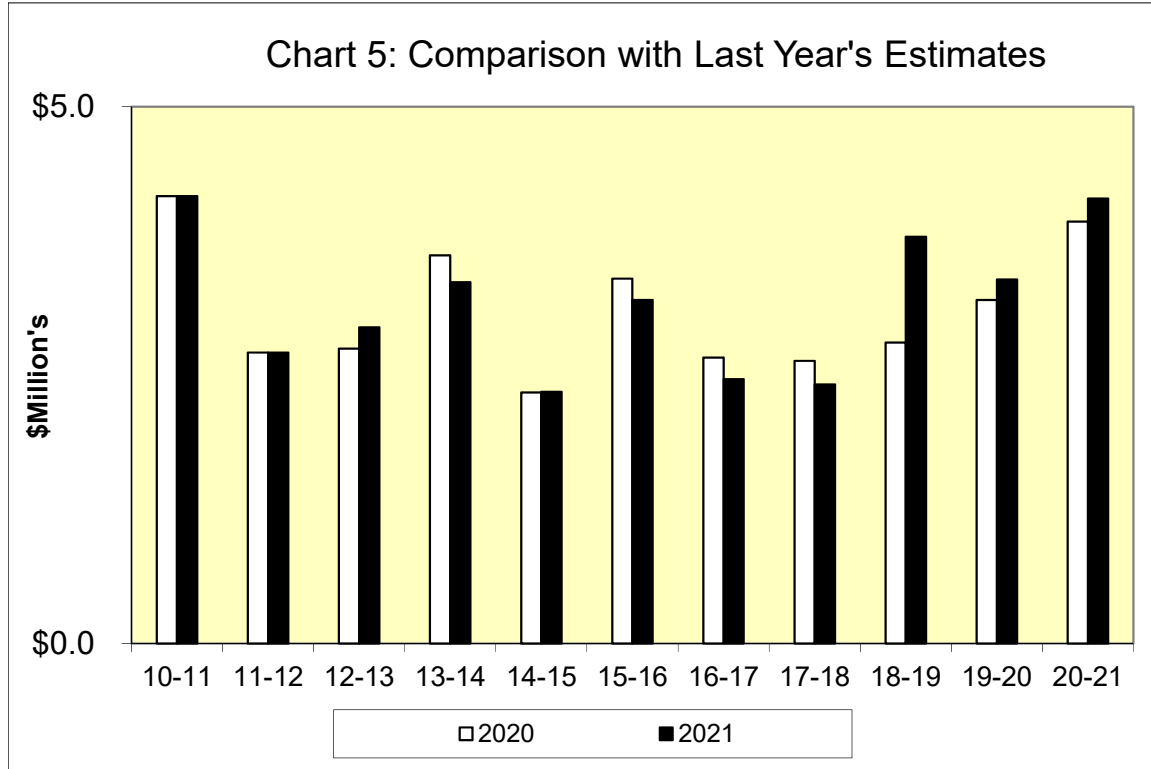
There is **\$1.10** of projected IBNR liability for every **\$1.00** of projected case reserves. Last year this ratio was **\$1.18**.

### Short-Term Liability

Short-term liabilities are those expected to be expended within twelve months. The limited 6/30/21 liability comprises **\$2,683,189** in short-term and **\$12,991,838** in long-term liabilities.

### Comparison with Last Year's Estimates

Chart 5 compares this year's estimates of the limited ultimate losses with last year's. It shows limited losses excluding 4850/TD benefits. The total change for all years through 2019-20 was an increase of only **\$360,854**.



### Reconciling the 12/31/19 & 12/31/20 Liabilities

In the 2020 report the estimated liability, excluding 4850, was **\$14,453,417** on 12/31/19. Table VI shows the new undiscounted central estimate of **\$15,103,770**. Table IX reconciles these two amounts.

| <b>Table IX: Reconcile 12/31/19 &amp; 12/31/20 Liabilities</b> |                     |
|----------------------------------------------------------------|---------------------|
| <b>Estimated 12/31/19 Liability</b>                            | <b>\$14,453,417</b> |
| Payments in Calendar 2020                                      | -3,361,049          |
| Change in estimates for 12/31/19 and Prior                     | +243,912            |
| Estimated Losses in Calendar 2020                              | +3,767,490          |
| <b>12/31/20 Liability</b>                                      | <b>\$15,103,770</b> |

Therefore most of the change in the estimated liability is due to the estimated calendar year 2020 losses and not to any change in the estimated losses for the older years.

## Interest Rates

The rates in Tables II, III, and V and liability estimates in Tables VI and VIII are discounted at **1.0%** interest, unchanged from last year. Table X shows the adjustments to make to use a different interest rate:

| <b>Interest Rate</b> | <b>0.0%</b>  | <b>0.77%</b> | <b>0.87%</b> | <b>1.0%</b> | <b>1.27%</b> |
|----------------------|--------------|--------------|--------------|-------------|--------------|
| <b>UNL Rate</b>      | <b>+6.7%</b> | <b>+1.5%</b> | <b>+0.9%</b> | <b>0.0%</b> | <b>-1.6%</b> |
| <b>1M Rate</b>       | <b>+6.5%</b> | <b>+1.4%</b> | <b>+0.9%</b> | <b>0.0%</b> | <b>-1.6%</b> |
| <b>500K Rate</b>     | <b>+6.2%</b> | <b>+1.4%</b> | <b>+0.8%</b> | <b>0.0%</b> | <b>-1.5%</b> |
| <b>350K Rate</b>     | <b>+5.8%</b> | <b>+1.3%</b> | <b>+0.7%</b> | <b>0.0%</b> | <b>-1.4%</b> |
| <b>300K Rate</b>     | <b>+5.6%</b> | <b>+1.2%</b> | <b>+0.7%</b> | <b>0.0%</b> | <b>-1.4%</b> |
| <b>250K Rate</b>     | <b>+5.4%</b> | <b>+1.2%</b> | <b>+0.6%</b> | <b>0.0%</b> | <b>-1.4%</b> |
| <b>Liabilities</b>   | <b>+5.6%</b> | <b>+1.2%</b> | <b>+0.6%</b> | <b>0.0%</b> | <b>-1.5%</b> |

Given currently available market interest rates the Authority could fund the projected 6/30/21 liability by investing in US Treasuries and earn a yield to maturity of about **0.87%**.

Funding the projected 2021-22 losses with US Treasuries could yield **0.77%**. Matching the 6/30/21 liability with high quality corporate bonds instead of treasuries would increase the prospective yield on investment to about **1.27%** per year. Therefore **1.0%** appears still to be a reasonable interest rate for this report.

## COVID 19

We normally comment on the effect that COVID 19 is having on claims. In MBASIA's case we do not see any effect at all on the number of claims or their amounts. Therefore no actuarial adjustments were made to compensate for any unusual COVID 19 effects in this report.

# **Monterey Bay Area Self Insurance Authority**

## **An Actuarial Review of the Workers' Compensation Program**

### **Technical Approach**

# Monterey Bay Area Self Insurance Authority

## An Actuarial Review of the Workers' Compensation Program

### Technical Approach

This section describes the actuarial calculations.

#### **Exhibits**

##### ***Summary Exhibits***

These exhibits summarize the analysis and conclusions. Summary Exhibits 1, 2, and 3 show the liabilities for unpaid losses as of 12/31/20 and 6/30/21. There are two sets of 6/30/21 probability levels. The first one assumes that losses develop over the next six months as we currently project. The other takes all possible outcomes over the next six months into account. Summary Exhibit 4 shows the projected rate for the 2021-22 program year, which runs from 7/1/21 to 6/30/22. Summary Exhibit 5 shows the projected unpaid losses as of 6/30/21 by program year on both discounted and non-discounted bases. Summary Exhibit 6 shows the projected ULAE liability.

##### ***Fiscal Year End Exhibits***

These exhibits show the projected unpaid limited losses as of 6/30/21. Fiscal Year End Exhibit 10 shows limited unpaid losses including 4850 benefits. Fiscal Year End Exhibits 3 and 4 show the projected 2021-22 4850 and TD benefits. Fiscal Year End Exhibit 2 shows the calculation that removes 4850 IBNR from the total IBNR liability. Fiscal Year End Exhibit 1 shows the limited unpaid losses excluding 4850.

##### ***Limited Ultimate Loss Exhibits***

These exhibits show the estimation of the limited ultimate losses for each program year, including 4850 benefits. We start with the gross (unlimited) loss

estimates and adjust them to a limited basis to reflect the expected effect of excess insurance.

### ***Gross Loss Exhibits***

These exhibits show the various actuarial projection methods and summarize the results for each program year.

We use five different actuarial methods:

- 1) Reported loss projection method;
- 2) Paid loss projection method;
- 3) IBNR to Case Reserves Ratio method;
- 4) Bornhuetter-Ferguson method using reported losses; and
- 5) Frequency times Severity method.

Gross Loss Exhibit 1 summarizes these results.

### ***Future Loss Exhibits***

These exhibits show the projection of the projected gross (unlimited) rate for 2021-22.

### ***Discounting Exhibits***

These exhibits show the discounting of the remaining unpaid losses and the projected future loss rate. They also include the Program Information Exhibit.

### ***Claims Data Exhibits***

These exhibits show the reported loss, paid loss, and claim count triangles as of 12/31/20, and the associated loss and claim development factors.

**Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program**

**Actuarial Analysis of the  
Workers' Compensation Program**

**Summary Exhibits**

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Estimated Unpaid Losses as of December 31, 2020

**Limited Self-Insured Losses Excluding 4850**

|     |                                                                     |              |
|-----|---------------------------------------------------------------------|--------------|
| (1) | Estimated Unpaid Losses:                                            | \$15,103,770 |
| (2) | Discounted Value of Unpaid Losses:<br>(Assuming 1.0% Interest Rate) | \$14,297,433 |

**Probability Levels**

| Probability<br>Level<br><u>(3)</u> | Probability<br>Factor<br><u>(4)</u> | Undiscounted<br>Liability<br><u>(5)</u> | Discounted<br>Liability<br><u>(6)</u> |
|------------------------------------|-------------------------------------|-----------------------------------------|---------------------------------------|
| <b>Central Estimate</b>            | <b>1.00</b>                         | <b>\$15,103,770</b>                     | <b>\$14,297,433</b>                   |
| 60%                                | 1.02                                | 15,405,846                              | 14,583,381                            |
| 70%                                | 1.05                                | 15,858,959                              | 15,012,304                            |
| 75%                                | 1.07                                | 16,161,034                              | 15,298,253                            |
| 80%                                | 1.09                                | 16,463,110                              | 15,584,202                            |
| 90%                                | 1.14                                | 17,218,298                              | 16,299,073                            |

Notes:

- (1) Page 25, Column (6).
- (2) (1), discounted at 1.00% interest.
- (3) Estimated probability that funding will be adequate.
- (4) Estimated by BAC.
- (5) (1) x (4).
- (6) (2) x (4).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projected June 30, 2021 Estimate of Liability  
Limited Self-Insured Losses Excluding 4850

|                                                |                     |
|------------------------------------------------|---------------------|
| (1) Estimated Unpaid Losses: 12/31/20          | \$15,103,770        |
| (2) Projected payments over next six months:   | \$1,500,660         |
| (3) Projected new losses over next six months: | \$2,071,917         |
| <b>(4) Projected Unpaid Losses: 6/30/21</b>    | <b>\$15,675,027</b> |

| Probability Level<br>(5) | Projected Estimate of 6/30/21 Probability Factor<br>(6) | Undiscounted<br>(7) | Discounted<br>(8) |
|--------------------------|---------------------------------------------------------|---------------------|-------------------|
| Central Estimate         | 1.00                                                    | \$15,675,027        | \$14,844,251      |
| 60%                      | 1.02                                                    | 15,988,528          | 15,141,136        |
| 70%                      | 1.05                                                    | 16,458,779          | 15,586,463        |
| 75%                      | 1.07                                                    | 16,772,279          | 15,883,348        |
| 80%                      | 1.08                                                    | 16,929,029          | 16,031,791        |
| 90%                      | 1.14                                                    | 17,869,531          | 16,922,446        |

Item (6) relies upon the accuracy of the projections in items (2) & (3).  
The assumption is that actual expenditures and actual new losses will match items (2) & (3) exactly.

Notes:

- (1) Page 19, Item (1).
- (2) Projected by BAC.
- (3) Projected by BAC.
- (4) (1) - (2) + (3).
- (5) Projected Probability on 6/30/21.
- (6) 12/31/20 projection of what the estimate will be on 6/30/21.
- (7) (4) x (6).
- (8) (7), discounted at 1.00% interest.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projected Unpaid Losses as of June 30, 2021  
**Limited Self-Insured Losses Excluding 4850**

|                                                                         |              |
|-------------------------------------------------------------------------|--------------|
| (1) Projected Unpaid Losses:                                            | \$15,675,027 |
| (2) Discounted Value of Unpaid Losses:<br>(Assuming 1.0% Interest Rate) | \$14,838,192 |

**Probability Levels**

| 12/31/20 Estimate<br>of 6/30/21<br>Probability<br>Level<br><u>(3)</u> | Probability<br>Factor<br><u>(4)</u> | Undiscounted<br>Liability<br><u>(5)</u> | Discounted<br>Liability<br><u>(6)</u> |
|-----------------------------------------------------------------------|-------------------------------------|-----------------------------------------|---------------------------------------|
| <b>Central Estimate</b>                                               | <b>1.00</b>                         | <b>\$15,675,027</b>                     | <b>\$14,838,192</b>                   |
| 60%                                                                   | 1.03                                | 16,145,278                              | 15,283,338                            |
| 70%                                                                   | 1.07                                | 16,772,279                              | 15,876,865                            |
| 75%                                                                   | 1.10                                | 17,242,530                              | 16,322,011                            |
| 80%                                                                   | 1.13                                | 17,712,781                              | 16,767,157                            |
| 90%                                                                   | 1.22                                | 19,123,533                              | 18,102,594                            |

Notes:

- (1) Page 23, Column (1).
- (2) Page 23, Column (2).
- (3) Estimated probability that funding will be adequate.
- (4) Current estimate taking into account all possible outcomes.
- (5) (1) x (4).
- (6) (2) x (4).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projected Loss Funding Rate for 2021-22

\$250,000 SIR Loss rate  
**Limited Losses Including 4850/TD**

|                                                                       |                             |
|-----------------------------------------------------------------------|-----------------------------|
| (1) Discounted Loss Rate:<br>(as of July 1, 2021, 1.0% interest rate) | <u>Loss Rates</u><br>\$6.21 |
|-----------------------------------------------------------------------|-----------------------------|

| <b><u>Probability Levels</u></b> |                                  |                                    |
|----------------------------------|----------------------------------|------------------------------------|
| Probability Level<br><u>(2)</u>  | Probability Factor<br><u>(3)</u> | Discounted *<br>Rate<br><u>(4)</u> |
| 0.20                             | 0.76                             | \$4.72                             |
| 0.30                             | 0.84                             | 5.22                               |
| 0.40                             | 0.91                             | 5.65                               |
| 0.50                             | 0.97                             | 6.02                               |
| <b>Central Estimate</b>          | <b>1.00</b>                      | <b>\$6.21</b>                      |
| 0.60                             | 1.05                             | 6.52                               |
| 0.70                             | 1.12                             | 6.96                               |
| 0.80                             | 1.22                             | 7.58                               |
| 0.90                             | 1.36                             | 8.45                               |

\* Multiply by 1.054 to obtain undiscounted values.

Notes:

- (1) [Page 61, Column (5)] x [Page 69, Item (4)], adjusted for \$250K SIR.
- (2) Estimated probability that funding will be adequate.
- (3) Estimated by BAC.
- (4) (1) x (3).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

June 30, 2021 Summary

**Limited Self-Insured Losses Excluding 4850**

| Program<br>Year | Undiscounted<br>Claims<br>Liabilities<br>as of<br>6/30/21<br>(1) | Discounted<br>(1.0% Interest)<br>Claims<br>Liabilities<br>as of<br>6/30/21<br>(2) | Estimated<br>Ultimate<br>Losses<br>(3) |
|-----------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------|
| 1989-90         | \$9,525                                                          | \$9,174                                                                           | \$749,000                              |
| 1990-91         | 17,745                                                           | 17,012                                                                            | 1,270,000                              |
| 1991-92         | 14,206                                                           | 13,558                                                                            | 1,470,000                              |
| 1992-93         | 37,235                                                           | 35,379                                                                            | 1,482,639                              |
| 1993-94         | 18,543                                                           | 17,541                                                                            | 1,138,561                              |
| 1994-95         | 123,578                                                          | 116,408                                                                           | 849,693                                |
| 1995-96         | 14,505                                                           | 13,606                                                                            | 874,518                                |
| 1996-97         | 49,085                                                           | 45,858                                                                            | 1,388,181                              |
| 1997-98         | 68,262                                                           | 63,524                                                                            | 1,112,837                              |
| 1998-99         | 124,146                                                          | 115,789                                                                           | 1,561,420                              |
| 1999-00         | 31,828                                                           | 29,736                                                                            | 1,497,757                              |
| 2000-01         | 36,725                                                           | 34,354                                                                            | 2,579,152                              |
| 2001-02         | 63,117                                                           | 59,099                                                                            | 1,991,203                              |
| 2002-03         | 100,364                                                          | 94,038                                                                            | 2,095,354                              |
| 2003-04         | 54,225                                                           | 50,832                                                                            | 1,895,776                              |
| 2004-05         | 94,918                                                           | 89,007                                                                            | 1,690,688                              |
| 2005-06         | 211,835                                                          | 198,682                                                                           | 1,485,790                              |
| 2006-07         | 223,360                                                          | 209,511                                                                           | 2,977,898                              |
| 2007-08         | 363,550                                                          | 341,013                                                                           | 1,535,596                              |
| 2008-09         | 75,765                                                           | 71,118                                                                            | 1,630,026                              |
| 2009-10         | 301,827                                                          | 283,327                                                                           | 3,120,153                              |
| 2010-11         | 474,389                                                          | 445,065                                                                           | 4,166,773                              |
| 2011-12         | 450,019                                                          | 422,150                                                                           | 2,708,577                              |
| 2012-13         | 473,966                                                          | 447,198                                                                           | 2,945,202                              |
| 2013-14         | 281,376                                                          | 266,189                                                                           | 3,363,657                              |
| 2014-15         | 562,740                                                          | 532,729                                                                           | 2,343,453                              |
| 2015-16         | 776,736                                                          | 735,089                                                                           | 3,199,115                              |
| 2016-17         | 1,188,141                                                        | 1,124,553                                                                         | 2,462,724                              |
| 2017-18         | 1,075,564                                                        | 1,019,198                                                                         | 2,412,060                              |
| 2018-19         | 2,220,650                                                        | 2,103,358                                                                         | 3,787,460                              |
| 2019-20         | 2,436,243                                                        | 2,313,465                                                                         | 3,391,148                              |
| 2020-21         | 3,700,860                                                        | 3,520,632                                                                         | 4,143,833                              |
| <b>Total</b>    | <b>\$15,675,027</b>                                              | <b>\$14,838,192</b>                                                               | <b>\$69,320,245</b>                    |

Notes:

- (1) Page 64, Column (1).
- (2) Page 64, Column (3).
- (3) Page 26, Column (1).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

ULAE Projections and Calculation of Unpaid ULAE

(1) Selected ULAE Ratio: **12.0%**

|                                                                        | Case<br>Reserves with<br><u>Development</u> | "True"<br><u>IBNR</u> | <u>Total</u> |
|------------------------------------------------------------------------|---------------------------------------------|-----------------------|--------------|
| (2) ULAE Ratio:                                                        | 6.0%                                        | 12.0%                 |              |
| (3) Estimated Unpaid<br>Losses as of 12/31/20:                         | \$28,733,362                                | \$1,516,964           | \$30,250,326 |
| (4) Estimated Unpaid<br>ULAE as of 12/31/20:                           | \$1,724,002                                 | \$182,036             | \$1,906,038  |
| (5) Discounted Unpaid<br>ULAE as of 12/31/20:<br>( 1.0% interest rate) |                                             |                       | \$1,805,018  |

We project that the ULAE liability will not change between 12/31/20 & 06/30/21.

Notes:

- (1) Estimated by BAC.
- (2) "50-50 Rule."
- (3) From gross ultimates on Page 46 and gross claims data, assuming 90% of IBNR is development on known claims.
- (4) (2) x (3).
- (5) (4) x [Page 64, Item (4)].

**Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program**

**Actuarial Analysis of the  
Workers' Compensation Program**

**Fiscal Year End Exhibits**

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projected Unpaid Losses as of June 30, 2021

**Limited Self-Insured Losses Excluding 4850**

| Program<br>Year | Estimated<br>Ultimate<br>Losses<br>(1) | Limited Paid<br>Losses less<br>4850 Paid<br>6/30/21<br>(2) | Limited Case<br>Reserves less<br>4850 Case<br>6/30/21<br>(3) | Lim Reported<br>less 4850<br>Reported<br>6/30/21<br>(4) | Limited IBNR<br>less 4850<br>IBNR<br>6/30/21<br>(5) | Projected<br>Unpaid Losses<br>excluding<br>4850<br>6/30/21<br>(6) |
|-----------------|----------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|
| 1989-90         | \$749,000                              | \$739,475                                                  | \$0                                                          | \$739,475                                               | \$9,525                                             | \$9,525                                                           |
| 1990-91         | 1,270,000                              | 1,252,255                                                  | 14,357                                                       | 1,266,613                                               | 3,387                                               | 17,745                                                            |
| 1991-92         | 1,470,000                              | 1,455,794                                                  | 7,422                                                        | 1,463,215                                               | 6,785                                               | 14,206                                                            |
| 1992-93         | 1,482,639                              | 1,445,404                                                  | 29,889                                                       | 1,475,293                                               | 7,346                                               | 37,235                                                            |
| 1993-94         | 1,138,561                              | 1,120,018                                                  | 12,582                                                       | 1,132,601                                               | 5,960                                               | 18,543                                                            |
| 1994-95         | 849,693                                | 726,115                                                    | 101,780                                                      | 827,895                                                 | 21,798                                              | 123,578                                                           |
| 1995-96         | 874,518                                | 860,013                                                    | 327                                                          | 860,341                                                 | 14,177                                              | 14,505                                                            |
| 1996-97         | 1,388,181                              | 1,339,096                                                  | 39,979                                                       | 1,379,076                                               | 9,106                                               | 49,085                                                            |
| 1997-98         | 1,112,837                              | 1,044,575                                                  | 47,678                                                       | 1,092,253                                               | 20,584                                              | 68,262                                                            |
| 1998-99         | 1,561,420                              | 1,437,274                                                  | 98,550                                                       | 1,535,824                                               | 25,597                                              | 124,146                                                           |
| 1999-00         | 1,497,757                              | 1,465,928                                                  | 0                                                            | 1,465,928                                               | 31,828                                              | 31,828                                                            |
| 2000-01         | 2,579,152                              | 2,542,427                                                  | 0                                                            | 2,542,427                                               | 36,725                                              | 36,725                                                            |
| 2001-02         | 1,991,203                              | 1,928,086                                                  | 39,158                                                       | 1,967,244                                               | 23,959                                              | 63,117                                                            |
| 2002-03         | 2,095,354                              | 1,994,990                                                  | 47,076                                                       | 2,042,066                                               | 53,287                                              | 100,364                                                           |
| 2003-04         | 1,895,776                              | 1,841,551                                                  | 0                                                            | 1,841,551                                               | 54,225                                              | 54,225                                                            |
| 2004-05         | 1,690,688                              | 1,595,771                                                  | 35,081                                                       | 1,630,852                                               | 59,837                                              | 94,918                                                            |
| 2005-06         | 1,485,790                              | 1,273,955                                                  | 173,852                                                      | 1,447,807                                               | 37,983                                              | 211,835                                                           |
| 2006-07         | 2,977,898                              | 2,754,538                                                  | 133,999                                                      | 2,888,537                                               | 89,361                                              | 223,360                                                           |
| 2007-08         | 1,535,596                              | 1,172,046                                                  | 311,288                                                      | 1,483,334                                               | 52,262                                              | 363,550                                                           |
| 2008-09         | 1,630,026                              | 1,554,261                                                  | 35,372                                                       | 1,589,634                                               | 40,392                                              | 75,765                                                            |
| 2009-10         | 3,120,153                              | 2,818,326                                                  | 64,877                                                       | 2,883,203                                               | 236,950                                             | 301,827                                                           |
| 2010-11         | 4,166,773                              | 3,692,383                                                  | 387,949                                                      | 4,080,332                                               | 86,440                                              | 474,389                                                           |
| 2011-12         | 2,708,577                              | 2,258,558                                                  | 292,960                                                      | 2,551,518                                               | 157,059                                             | 450,019                                                           |
| 2012-13         | 2,945,202                              | 2,471,236                                                  | 280,638                                                      | 2,751,874                                               | 193,328                                             | 473,966                                                           |
| 2013-14         | 3,363,657                              | 3,082,281                                                  | 54,430                                                       | 3,136,711                                               | 226,947                                             | 281,376                                                           |
| 2014-15         | 2,343,453                              | 1,780,713                                                  | 230,564                                                      | 2,011,277                                               | 332,176                                             | 562,740                                                           |
| 2015-16         | 3,199,115                              | 2,422,380                                                  | 340,272                                                      | 2,762,651                                               | 436,464                                             | 776,736                                                           |
| 2016-17         | 2,462,724                              | 1,274,583                                                  | 681,039                                                      | 1,955,623                                               | 507,101                                             | 1,188,141                                                         |
| 2017-18         | 2,412,060                              | 1,336,496                                                  | 460,893                                                      | 1,797,390                                               | 614,670                                             | 1,075,564                                                         |
| 2018-19         | 3,787,460                              | 1,566,810                                                  | 1,102,881                                                    | 2,669,691                                               | 1,117,769                                           | 2,220,650                                                         |
| 2019-20         | 3,391,148                              | 954,905                                                    | 1,049,534                                                    | 2,004,439                                               | 1,386,709                                           | 2,436,243                                                         |
| 2020-21         | 4,143,833                              | 442,973                                                    | 1,399,131                                                    | 1,842,104                                               | 2,301,729                                           | 3,700,860                                                         |
| <b>Total</b>    | <b>\$69,320,245</b>                    | <b>\$53,645,218</b>                                        | <b>\$7,473,560</b>                                           | <b>\$61,118,778</b>                                     | <b>\$8,201,467</b>                                  | <b>\$15,675,027</b>                                               |

Notes:

(1) - (6) Page 35 entries - Page 30 entries.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Calculation of 4850 IBNR

| Program<br>Year | Total<br>Case<br>Reserves<br>12/31/20<br>(1) | 4850<br>Case<br>Reserves<br>12/31/20<br>(2) | 4850<br>Case<br>Reserves<br>Percentage<br>(3) | Total<br>IBNR<br>as of<br>12/31/20<br>(4) | 4850<br>IBNR<br>as of<br>12/31/20<br>(5) | IBNR Net of<br>4850<br>as of<br>12/31/20<br>(6) |
|-----------------|----------------------------------------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------------|-------------------------------------------------|
| 1989-90         | \$0                                          | \$0                                         | 0.0%                                          | \$10,196                                  | \$0                                      | \$10,196                                        |
| 1990-91         | 15,025                                       | 0                                           | 0.0%                                          | 3,845                                     | 0                                        | 3,845                                           |
| 1991-92         | 7,229                                        | 0                                           | 0.0%                                          | 7,801                                     | 0                                        | 7,801                                           |
| 1992-93         | 30,718                                       | 0                                           | 0.0%                                          | 8,519                                     | 0                                        | 8,519                                           |
| 1993-94         | 13,082                                       | 0                                           | 0.0%                                          | 6,393                                     | 0                                        | 6,393                                           |
| 1994-95         | 106,964                                      | 0                                           | 0.0%                                          | 22,480                                    | 0                                        | 22,480                                          |
| 1995-96         | 0                                            | 0                                           | 0.0%                                          | 15,160                                    | 0                                        | 15,160                                          |
| 1996-97         | 41,593                                       | 0                                           | 0.0%                                          | 9,615                                     | 0                                        | 9,615                                           |
| 1997-98         | 52,913                                       | 0                                           | 0.0%                                          | 21,532                                    | 0                                        | 21,532                                          |
| 1998-99         | 107,584                                      | 0                                           | 0.0%                                          | 27,603                                    | 0                                        | 27,603                                          |
| 1999-00         | 0                                            | 0                                           | 0.0%                                          | 34,614                                    | 0                                        | 34,614                                          |
| 2000-01         | 0                                            | 0                                           | 0.0%                                          | 39,894                                    | 0                                        | 39,894                                          |
| 2001-02         | 43,915                                       | 0                                           | 0.0%                                          | 24,582                                    | 0                                        | 24,582                                          |
| 2002-03         | 53,998                                       | 0                                           | 0.0%                                          | 54,826                                    | 0                                        | 54,826                                          |
| 2003-04         | 0                                            | 0                                           | 0.0%                                          | 58,750                                    | 0                                        | 58,750                                          |
| 2004-05         | 41,152                                       | 0                                           | 0.0%                                          | 61,614                                    | 0                                        | 61,614                                          |
| 2005-06         | 190,099                                      | 0                                           | 0.0%                                          | 39,104                                    | 0                                        | 39,104                                          |
| 2006-07         | 149,642                                      | 0                                           | 0.0%                                          | 91,882                                    | 0                                        | 91,882                                          |
| 2007-08         | 341,981                                      | 0                                           | 0.0%                                          | 53,571                                    | 0                                        | 53,571                                          |
| 2008-09         | 39,800                                       | 0                                           | 0.0%                                          | 42,210                                    | 0                                        | 42,210                                          |
| 2009-10         | 66,457                                       | 0                                           | 0.0%                                          | 258,563                                   | 0                                        | 258,563                                         |
| 2010-11         | 416,115                                      | 0                                           | 0.0%                                          | 96,297                                    | 0                                        | 96,297                                          |
| 2011-12         | 344,043                                      | 0                                           | 0.0%                                          | 169,718                                   | 0                                        | 169,718                                         |
| 2012-13         | 292,816                                      | 0                                           | 0.0%                                          | 237,794                                   | 0                                        | 237,794                                         |
| 2013-14         | 49,603                                       | 0                                           | 0.0%                                          | 260,560                                   | 0                                        | 260,560                                         |
| 2014-15         | 253,686                                      | 0                                           | 0.0%                                          | 360,937                                   | 0                                        | 360,937                                         |
| 2015-16         | 344,727                                      | 0                                           | 0.0%                                          | 506,573                                   | 0                                        | 506,573                                         |
| 2016-17         | 735,095                                      | 0                                           | 0.0%                                          | 581,573                                   | 0                                        | 581,573                                         |
| 2017-18         | 431,754                                      | 2,928                                       | 0.7%                                          | 743,994                                   | 0                                        | 743,994                                         |
| 2018-19         | 1,169,951                                    | 15,733                                      | 1.3%                                          | 1,341,552                                 | 902                                      | 1,340,650                                       |
| 2019-20         | 970,316                                      | 59,064                                      | 6.1%                                          | 1,801,980                                 | 16,453                                   | 1,785,527                                       |
| 2020-21         | 901,540                                      | 83,963                                      | 9.3%                                          | 1,059,929                                 | 29,614                                   | 1,030,314                                       |
| Total           | \$7,211,798                                  | \$161,688                                   |                                               | \$8,053,661                               | \$46,970                                 | \$8,006,691                                     |

## Notes:

- (1) Page 37, Column (3).
- (2) Provided by Aims.
- (3) (2) / (1).
- (4) Page 37, Column (5).
- (5) (2) x 'IBNR to case reserves' ratio.  
Ratio is [(4) / (1)], reduced 70% in 2020-21, 85% in 2019-20, & 95% in 2018-19.  
4850 IBNR is \$0 for all other years.
- (6) (4) - (5).

Monterey Bay Area Self Insurance Authority  
 Workers' Compensation Program

4850 as % of Total Losses

| Program Year   | Ultimate 4850<br>(1) | Estimated Ultimate Gross Loss<br>(2) | 4850 Percentage<br>(3) |
|----------------|----------------------|--------------------------------------|------------------------|
| 2009-10        | \$679,847            | \$5,980,000                          | 11.4%                  |
| 2010-11        | 633,227              | 7,400,000                            | 8.6%                   |
| 2011-12        | 391,423              | 3,400,000                            | 11.5%                  |
| 2012-13        | 354,798              | 4,800,000                            | 7.4%                   |
| 2013-14        | 636,343              | 8,300,000                            | 7.7%                   |
| 2014-15        | 156,547              | 3,800,000                            | 4.1%                   |
| 2015-16        | 200,885              | 5,900,000                            | 3.4%                   |
| 2016-17        | 137,276              | 3,400,000                            | 4.0%                   |
| 2017-18        | 87,940               | 3,500,000                            | 2.5%                   |
| 2018-19        | 212,540              | 4,900,000                            | 4.3%                   |
| 2019-20        | 208,852              | 4,200,000                            | 5.0%                   |
| Average        | \$336,334            | \$5,052,727                          | 6.7%                   |
| 14-15 to 19-20 | \$167,340            | \$4,283,333                          | 3.9%                   |

|                         |           |
|-------------------------|-----------|
| Projected 2021-22 4850: |           |
| (4)                     | \$170,000 |

(1) Page 33, Column (4).  
 (2) Page 46, Column (6).  
 (3) (1) / (2).  
 (4) Projected by BAC.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

TD as % of Total Losses

| Program Year   | Ultimate TD<br>(1) | Estimated Ultimate Gross Loss<br>(2) | TD Percentage<br>(3) |
|----------------|--------------------|--------------------------------------|----------------------|
| 2009-10        | \$304,478          | \$5,980,000                          | 5.1%                 |
| 2010-11        | 607,765            | 7,400,000                            | 8.2%                 |
| 2011-12        | 319,083            | 3,400,000                            | 9.4%                 |
| 2012-13        | 325,457            | 4,800,000                            | 6.8%                 |
| 2013-14        | 659,638            | 8,300,000                            | 7.9%                 |
| 2014-15        | 388,809            | 3,800,000                            | 10.2%                |
| 2015-16        | 650,533            | 5,900,000                            | 11.0%                |
| 2016-17        | 248,908            | 3,400,000                            | 7.3%                 |
| 2017-18        | 371,088            | 3,500,000                            | 10.6%                |
| 2018-19        | 479,992            | 4,900,000                            | 9.8%                 |
| 2019-20        | 409,821            | 4,200,000                            | 9.8%                 |
| Average        | \$433,234          | \$5,052,727                          | 8.6%                 |
| 15-16 to 19-20 | \$432,068          | \$4,380,000                          | 9.9%                 |

|                       |           |
|-----------------------|-----------|
| Projected 2021-22 TD: |           |
| (4)                   | \$440,000 |

- (1) Page 34, Column (4).
- (2) Page 46, Column (6).
- (3) (1) / (2).
- (4) Projected by BAC.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projected Unpaid Losses as of June 30, 2021

**4850 Only**

| Program<br>Year | Estimated<br>Ultimate<br>4850/TD<br>(1) | Projected<br>4850/TD Paid<br>as of<br>6/30/21<br>(2) | Projected<br>4850/TD Case<br>Reserves<br>as of<br>6/30/21<br>(3) | Projected<br>4850/TD<br>Reported<br>as of<br>6/30/21<br>(4) | Projected<br>4850/TD<br>IBNR<br>as of<br>6/30/21<br>(5) | Projected<br>Unpaid Losses<br>excluding<br>4850/TD<br>6/30/21<br>(6) |
|-----------------|-----------------------------------------|------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|
| 1989-90         | \$0                                     | \$0                                                  | \$0                                                              | \$0                                                         | \$0                                                     | \$0                                                                  |
| 1990-91         | 0                                       | 0                                                    | 0                                                                | 0                                                           | 0                                                       | 0                                                                    |
| 1991-92         | 0                                       | 0                                                    | 0                                                                | 0                                                           | 0                                                       | 0                                                                    |
| 1992-93         | 27,361                                  | 27,361                                               | 0                                                                | 27,361                                                      | 0                                                       | 0                                                                    |
| 1993-94         | 51,439                                  | 51,439                                               | 0                                                                | 51,439                                                      | 0                                                       | 0                                                                    |
| 1994-95         | 150,307                                 | 150,307                                              | 0                                                                | 150,307                                                     | 0                                                       | 0                                                                    |
| 1995-96         | 220,482                                 | 220,482                                              | 0                                                                | 220,482                                                     | 0                                                       | 0                                                                    |
| 1996-97         | 181,819                                 | 181,819                                              | 0                                                                | 181,819                                                     | 0                                                       | 0                                                                    |
| 1997-98         | 197,163                                 | 197,163                                              | 0                                                                | 197,163                                                     | 0                                                       | 0                                                                    |
| 1998-99         | 118,580                                 | 118,580                                              | 0                                                                | 118,580                                                     | 0                                                       | 0                                                                    |
| 1999-00         | 137,243                                 | 137,243                                              | 0                                                                | 137,243                                                     | 0                                                       | 0                                                                    |
| 2000-01         | 316,848                                 | 316,848                                              | 0                                                                | 316,848                                                     | 0                                                       | 0                                                                    |
| 2001-02         | 448,797                                 | 448,797                                              | 0                                                                | 448,797                                                     | 0                                                       | 0                                                                    |
| 2002-03         | 454,646                                 | 454,646                                              | 0                                                                | 454,646                                                     | 0                                                       | 0                                                                    |
| 2003-04         | 326,224                                 | 326,224                                              | 0                                                                | 326,224                                                     | 0                                                       | 0                                                                    |
| 2004-05         | 469,312                                 | 469,312                                              | 0                                                                | 469,312                                                     | 0                                                       | 0                                                                    |
| 2005-06         | 294,210                                 | 294,210                                              | 0                                                                | 294,210                                                     | 0                                                       | 0                                                                    |
| 2006-07         | 562,102                                 | 562,102                                              | 0                                                                | 562,102                                                     | 0                                                       | 0                                                                    |
| 2007-08         | 394,404                                 | 394,404                                              | 0                                                                | 394,404                                                     | 0                                                       | 0                                                                    |
| 2008-09         | 529,974                                 | 529,974                                              | 0                                                                | 529,974                                                     | 0                                                       | 0                                                                    |
| 2009-10         | 679,847                                 | 679,847                                              | 0                                                                | 679,847                                                     | 0                                                       | 0                                                                    |
| 2010-11         | 633,227                                 | 633,227                                              | 0                                                                | 633,227                                                     | 0                                                       | 0                                                                    |
| 2011-12         | 391,423                                 | 391,423                                              | 0                                                                | 391,423                                                     | 0                                                       | 0                                                                    |
| 2012-13         | 354,798                                 | 354,798                                              | 0                                                                | 354,798                                                     | 0                                                       | 0                                                                    |
| 2013-14         | 636,343                                 | 636,343                                              | 0                                                                | 636,343                                                     | 0                                                       | 0                                                                    |
| 2014-15         | 156,547                                 | 156,547                                              | 0                                                                | 156,547                                                     | 0                                                       | 0                                                                    |
| 2015-16         | 200,885                                 | 200,885                                              | 0                                                                | 200,885                                                     | 0                                                       | 0                                                                    |
| 2016-17         | 137,276                                 | 137,276                                              | 0                                                                | 137,276                                                     | 0                                                       | 0                                                                    |
| 2017-18         | 87,940                                  | 86,488                                               | 1,452                                                            | 87,940                                                      | 0                                                       | 1,452                                                                |
| 2018-19         | 212,540                                 | 201,180                                              | 11,360                                                           | 212,540                                                     | 0                                                       | 11,360                                                               |
| 2019-20         | 208,852                                 | 172,726                                              | 36,126                                                           | 208,852                                                     | 0                                                       | 36,126                                                               |
| 2020-21         | 256,167                                 | 123,315                                              | 76,733                                                           | 200,048                                                     | 56,119                                                  | 132,852                                                              |
| <b>Total</b>    | <b>\$8,836,755</b>                      | <b>\$8,654,965</b>                                   | <b>\$125,671</b>                                                 | <b>\$8,780,636</b>                                          | <b>\$56,119</b>                                         | <b>\$181,790</b>                                                     |

## Notes:

- (1) Page 33, Column (4).
- (2) Page 31, Column (3).
- (3) (4) - (2).
- (4) Page 31, Column (6).
- (5) (1) - (4).
- (6) (1) - (2).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projected Paid and Reported Losses between 1/1/21 and 6/30/21  
**4850 Only**

| Program<br>Year | Losses<br>Paid<br>as of<br>12/31/20<br>(1) | Projected<br>Losses<br>Paid<br>1/1/21 -<br>6/30/21<br>(2) | Projected<br>Losses<br>Paid<br>as of<br>6/30/21<br>(3) | Losses<br>Reported<br>as of<br>12/31/20<br>(4) | Projected<br>Losses<br>Reported<br>1/1/21 -<br>6/30/21<br>(5) | Projected<br>Losses<br>Reported<br>as of<br>6/30/21<br>(6) |
|-----------------|--------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|
| 1989-90         | \$0                                        | \$0                                                       | \$0                                                    | \$0                                            | \$0                                                           | \$0                                                        |
| 1990-91         | 0                                          | 0                                                         | 0                                                      | 0                                              | 0                                                             | 0                                                          |
| 1991-92         | 0                                          | 0                                                         | 0                                                      | 0                                              | 0                                                             | 0                                                          |
| 1992-93         | 27,361                                     | 0                                                         | 27,361                                                 | 27,361                                         | 0                                                             | 27,361                                                     |
| 1993-94         | 51,439                                     | 0                                                         | 51,439                                                 | 51,439                                         | 0                                                             | 51,439                                                     |
| 1994-95         | 150,307                                    | 0                                                         | 150,307                                                | 150,307                                        | 0                                                             | 150,307                                                    |
| 1995-96         | 220,482                                    | 0                                                         | 220,482                                                | 220,482                                        | 0                                                             | 220,482                                                    |
| 1996-97         | 181,819                                    | 0                                                         | 181,819                                                | 181,819                                        | 0                                                             | 181,819                                                    |
| 1997-98         | 197,163                                    | 0                                                         | 197,163                                                | 197,163                                        | 0                                                             | 197,163                                                    |
| 1998-99         | 118,580                                    | 0                                                         | 118,580                                                | 118,580                                        | 0                                                             | 118,580                                                    |
| 1999-00         | 137,243                                    | 0                                                         | 137,243                                                | 137,243                                        | 0                                                             | 137,243                                                    |
| 2000-01         | 316,848                                    | 0                                                         | 316,848                                                | 316,848                                        | 0                                                             | 316,848                                                    |
| 2001-02         | 448,797                                    | 0                                                         | 448,797                                                | 448,797                                        | 0                                                             | 448,797                                                    |
| 2002-03         | 454,646                                    | 0                                                         | 454,646                                                | 454,646                                        | 0                                                             | 454,646                                                    |
| 2003-04         | 326,224                                    | 0                                                         | 326,224                                                | 326,224                                        | 0                                                             | 326,224                                                    |
| 2004-05         | 469,312                                    | 0                                                         | 469,312                                                | 469,312                                        | 0                                                             | 469,312                                                    |
| 2005-06         | 294,210                                    | 0                                                         | 294,210                                                | 294,210                                        | 0                                                             | 294,210                                                    |
| 2006-07         | 562,102                                    | 0                                                         | 562,102                                                | 562,102                                        | 0                                                             | 562,102                                                    |
| 2007-08         | 394,404                                    | 0                                                         | 394,404                                                | 394,404                                        | 0                                                             | 394,404                                                    |
| 2008-09         | 529,974                                    | 0                                                         | 529,974                                                | 529,974                                        | 0                                                             | 529,974                                                    |
| 2009-10         | 679,847                                    | 0                                                         | 679,847                                                | 679,847                                        | 0                                                             | 679,847                                                    |
| 2010-11         | 633,227                                    | 0                                                         | 633,227                                                | 633,227                                        | 0                                                             | 633,227                                                    |
| 2011-12         | 391,423                                    | 0                                                         | 391,423                                                | 391,423                                        | 0                                                             | 391,423                                                    |
| 2012-13         | 354,798                                    | 0                                                         | 354,798                                                | 354,798                                        | 0                                                             | 354,798                                                    |
| 2013-14         | 636,343                                    | 0                                                         | 636,343                                                | 636,343                                        | 0                                                             | 636,343                                                    |
| 2014-15         | 156,547                                    | 0                                                         | 156,547                                                | 156,547                                        | 0                                                             | 156,547                                                    |
| 2015-16         | 200,885                                    | 0                                                         | 200,885                                                | 200,885                                        | 0                                                             | 200,885                                                    |
| 2016-17         | 137,276                                    | 0                                                         | 137,276                                                | 137,276                                        | 0                                                             | 137,276                                                    |
| 2017-18         | 85,012                                     | 1,476                                                     | 86,488                                                 | 87,940                                         | 0                                                             | 87,940                                                     |
| 2018-19         | 196,808                                    | 4,372                                                     | 201,180                                                | 212,540                                        | 0                                                             | 212,540                                                    |
| 2019-20         | 149,788                                    | 22,938                                                    | 172,726                                                | 208,852                                        | 0                                                             | 208,852                                                    |
| 2020-21         | 44,120                                     | 79,195                                                    | 123,315                                                | 128,083                                        | 71,965                                                        | 200,048                                                    |
| <b>Total</b>    | <b>\$8,546,983</b>                         | <b>\$107,982</b>                                          | <b>\$8,654,965</b>                                     | <b>\$8,708,671</b>                             | <b>\$71,965</b>                                               | <b>\$8,780,636</b>                                         |

## Notes:

- (1) Page 33, Column (1).
- (2) Projected by BAC.
- (3) (1) + (2).
- (4) Provided by Aims.
- (5) Projected by BAC.
- (6) (4) + (5).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Estimated Unpaid Losses as of December 31, 2020

4850 Only

| Program<br>Year | Estimated<br>Ultimate<br>4850<br>(1) | 4850 Paid<br>as of<br>12/31/20<br>(2) | 4850 Case<br>Reserves<br>as of<br>12/31/20<br>(3) | 4850<br>Reported<br>as of<br>12/31/20<br>(4) | 4850<br>IBNR<br>as of<br>12/31/20<br>(5) | Estimated<br>Unpaid Losses<br>excluding<br>4850<br>12/31/20<br>(6) |
|-----------------|--------------------------------------|---------------------------------------|---------------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------------------------|
| 1989-90         | \$0                                  | \$0                                   | \$0                                               | \$0                                          | \$0                                      | \$0                                                                |
| 1990-91         | 0                                    | 0                                     | 0                                                 | 0                                            | 0                                        | 0                                                                  |
| 1991-92         | 0                                    | 0                                     | 0                                                 | 0                                            | 0                                        | 0                                                                  |
| 1992-93         | 27,361                               | 27,361                                | 0                                                 | 27,361                                       | 0                                        | 0                                                                  |
| 1993-94         | 51,439                               | 51,439                                | 0                                                 | 51,439                                       | 0                                        | 0                                                                  |
| 1994-95         | 150,307                              | 150,307                               | 0                                                 | 150,307                                      | 0                                        | 0                                                                  |
| 1995-96         | 220,482                              | 220,482                               | 0                                                 | 220,482                                      | 0                                        | 0                                                                  |
| 1996-97         | 181,819                              | 181,819                               | 0                                                 | 181,819                                      | 0                                        | 0                                                                  |
| 1997-98         | 197,163                              | 197,163                               | 0                                                 | 197,163                                      | 0                                        | 0                                                                  |
| 1998-99         | 118,580                              | 118,580                               | 0                                                 | 118,580                                      | 0                                        | 0                                                                  |
| 1999-00         | 137,243                              | 137,243                               | 0                                                 | 137,243                                      | 0                                        | 0                                                                  |
| 2000-01         | 316,848                              | 316,848                               | 0                                                 | 316,848                                      | 0                                        | 0                                                                  |
| 2001-02         | 448,797                              | 448,797                               | 0                                                 | 448,797                                      | 0                                        | 0                                                                  |
| 2002-03         | 454,646                              | 454,646                               | 0                                                 | 454,646                                      | 0                                        | 0                                                                  |
| 2003-04         | 326,224                              | 326,224                               | 0                                                 | 326,224                                      | 0                                        | 0                                                                  |
| 2004-05         | 469,312                              | 469,312                               | 0                                                 | 469,312                                      | 0                                        | 0                                                                  |
| 2005-06         | 294,210                              | 294,210                               | 0                                                 | 294,210                                      | 0                                        | 0                                                                  |
| 2006-07         | 562,102                              | 562,102                               | 0                                                 | 562,102                                      | 0                                        | 0                                                                  |
| 2007-08         | 394,404                              | 394,404                               | 0                                                 | 394,404                                      | 0                                        | 0                                                                  |
| 2008-09         | 529,974                              | 529,974                               | 0                                                 | 529,974                                      | 0                                        | 0                                                                  |
| 2009-10         | 679,847                              | 679,847                               | 0                                                 | 679,847                                      | 0                                        | 0                                                                  |
| 2010-11         | 633,227                              | 633,227                               | 0                                                 | 633,227                                      | 0                                        | 0                                                                  |
| 2011-12         | 391,423                              | 391,423                               | 0                                                 | 391,423                                      | 0                                        | 0                                                                  |
| 2012-13         | 354,798                              | 354,798                               | 0                                                 | 354,798                                      | 0                                        | 0                                                                  |
| 2013-14         | 636,343                              | 636,343                               | 0                                                 | 636,343                                      | 0                                        | 0                                                                  |
| 2014-15         | 156,547                              | 156,547                               | 0                                                 | 156,547                                      | 0                                        | 0                                                                  |
| 2015-16         | 200,885                              | 200,885                               | 0                                                 | 200,885                                      | 0                                        | 0                                                                  |
| 2016-17         | 137,276                              | 137,276                               | 0                                                 | 137,276                                      | 0                                        | 0                                                                  |
| 2017-18         | 87,940                               | 85,012                                | 2,928                                             | 87,940                                       | 0                                        | 2,928                                                              |
| 2018-19         | 212,540                              | 196,808                               | 15,733                                            | 212,540                                      | 0                                        | 15,733                                                             |
| 2019-20         | 208,852                              | 149,788                               | 59,064                                            | 208,852                                      | 0                                        | 59,064                                                             |
| 2020-21         | 128,083                              | 44,120                                | 83,963                                            | 128,083                                      | 0                                        | 83,963                                                             |
| <b>Total</b>    | <b>\$8,708,672</b>                   | <b>\$8,546,983</b>                    | <b>\$161,688</b>                                  | <b>\$8,708,671</b>                           |                                          | <b>\$161,689</b>                                                   |

## Notes:

- (1) Page 33, Column (4). 2020-21 adjusted for incomplete program year.
- (2) Page 31, Column (1).
- (3) (4) - (2).
- (4) Page 31, Column (4).
- (5) (1) - (4).
- (6) (1) - (2).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Paid 4850 Loss Development

| Program<br>Year | Cumulative<br>Paid<br>Losses as of<br>12/31/20<br>(1) | Paid<br>Development<br>Factor<br>as of<br>12/31/20<br>(2) | Projected<br>Ultimate<br>Losses<br>(3) | Selected<br>Ultimate<br>Losses<br>(4) |
|-----------------|-------------------------------------------------------|-----------------------------------------------------------|----------------------------------------|---------------------------------------|
| 1989-90         | \$0                                                   | 1.000                                                     | \$0                                    | \$0                                   |
| 1990-91         | 0                                                     | 1.000                                                     | 0                                      | 0                                     |
| 1991-92         | 0                                                     | 1.000                                                     | 0                                      | 0                                     |
| 1992-93         | 27,361                                                | 1.000                                                     | 27,361                                 | 27,361                                |
| 1993-94         | 51,439                                                | 1.000                                                     | 51,439                                 | 51,439                                |
| 1994-95         | 150,307                                               | 1.000                                                     | 150,307                                | 150,307                               |
| 1995-96         | 220,482                                               | 1.000                                                     | 220,482                                | 220,482                               |
| 1996-97         | 181,819                                               | 1.000                                                     | 181,819                                | 181,819                               |
| 1997-98         | 197,163                                               | 1.000                                                     | 197,163                                | 197,163                               |
| 1998-99         | 118,580                                               | 1.000                                                     | 118,580                                | 118,580                               |
| 1999-00         | 137,243                                               | 1.000                                                     | 137,243                                | 137,243                               |
| 2000-01         | 316,848                                               | 1.000                                                     | 316,848                                | 316,848                               |
| 2001-02         | 448,797                                               | 1.000                                                     | 448,797                                | 448,797                               |
| 2002-03         | 454,646                                               | 1.000                                                     | 454,646                                | 454,646                               |
| 2003-04         | 326,224                                               | 1.000                                                     | 326,224                                | 326,224                               |
| 2004-05         | 469,312                                               | 1.000                                                     | 469,312                                | 469,312                               |
| 2005-06         | 294,210                                               | 1.000                                                     | 294,210                                | 294,210                               |
| 2006-07         | 562,102                                               | 1.000                                                     | 562,102                                | 562,102                               |
| 2007-08         | 394,404                                               | 1.000                                                     | 394,404                                | 394,404                               |
| 2008-09         | 529,974                                               | 1.000                                                     | 529,974                                | 529,974                               |
| 2009-10         | 679,847                                               | 1.000                                                     | 679,847                                | 679,847                               |
| 2010-11         | 633,227                                               | 1.000                                                     | 633,227                                | 633,227                               |
| 2011-12         | 391,423                                               | 1.000                                                     | 391,423                                | 391,423                               |
| 2012-13         | 354,798                                               | 1.000                                                     | 354,798                                | 354,798                               |
| 2013-14         | 636,343                                               | 1.000                                                     | 636,343                                | 636,343                               |
| 2014-15         | 156,547                                               | 1.025                                                     | 160,421                                | 156,547                               |
| 2015-16         | 200,885                                               | 1.025                                                     | 205,857                                | 200,885                               |
| 2016-17         | 137,276                                               | 1.030                                                     | 141,385                                | 137,276                               |
| 2017-18         | 85,012                                                | 1.019                                                     | 86,658                                 | 87,940                                |
| 2018-19         | 196,808                                               | 1.008                                                     | 198,437                                | 212,540                               |
| 2019-20         | 149,788                                               | 1.101                                                     | 164,986                                | 208,852                               |
| 2020-21         | 44,120                                                | 3.499                                                     | 154,381                                | 256,167                               |
| <b>Total</b>    | <b>\$8,546,983</b>                                    |                                                           | <b>\$8,688,673</b>                     | <b>\$8,836,755</b>                    |

## Notes:

- (1) Provided by Aims.
- (2) Estimated by BAC.
- (3) (1) x (2), rounded.
- (4) Selected based upon (3) & case incurred values.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Paid TD Loss Development

| Program<br>Year | Cumulative<br>Paid<br>Losses as of<br>12/31/20<br>(1) | Paid<br>Development<br>Factor<br>as of<br>12/31/20<br>(2) | Projected<br>Ultimate<br>Losses<br>(3) | Selected<br>Ultimate<br>Losses<br>(4) |
|-----------------|-------------------------------------------------------|-----------------------------------------------------------|----------------------------------------|---------------------------------------|
| 1989-90         | \$238,006                                             | 1.000                                                     | \$238,006                              | \$238,006                             |
| 1990-91         | 168,259                                               | 1.000                                                     | 168,259                                | 168,259                               |
| 1991-92         | 268,489                                               | 1.000                                                     | 268,489                                | 268,489                               |
| 1992-93         | 171,461                                               | 1.000                                                     | 171,461                                | 171,461                               |
| 1993-94         | 63,926                                                | 1.000                                                     | 63,926                                 | 63,926                                |
| 1994-95         | 31,068                                                | 1.000                                                     | 31,068                                 | 31,068                                |
| 1995-96         | 11,580                                                | 1.000                                                     | 11,580                                 | 11,580                                |
| 1996-97         | 95,869                                                | 1.000                                                     | 95,869                                 | 95,869                                |
| 1997-98         | 20,370                                                | 1.000                                                     | 20,370                                 | 20,370                                |
| 1998-99         | 124,288                                               | 1.000                                                     | 124,288                                | 124,288                               |
| 1999-00         | 30,385                                                | 1.000                                                     | 30,385                                 | 30,385                                |
| 2000-01         | 229,695                                               | 1.000                                                     | 229,695                                | 255,773                               |
| 2001-02         | 78,920                                                | 1.000                                                     | 78,920                                 | 78,920                                |
| 2002-03         | 102,049                                               | 1.000                                                     | 102,049                                | 102,049                               |
| 2003-04         | 153,993                                               | 1.000                                                     | 153,993                                | 153,993                               |
| 2004-05         | 77,378                                                | 1.000                                                     | 77,378                                 | 77,378                                |
| 2005-06         | 55,431                                                | 1.000                                                     | 55,431                                 | 55,431                                |
| 2006-07         | 82,352                                                | 1.000                                                     | 82,352                                 | 89,352                                |
| 2007-08         | 49,814                                                | 1.000                                                     | 49,814                                 | 49,814                                |
| 2008-09         | 69,542                                                | 1.000                                                     | 69,542                                 | 69,542                                |
| 2009-10         | 304,478                                               | 1.000                                                     | 304,478                                | 304,478                               |
| 2010-11         | 607,765                                               | 1.000                                                     | 607,765                                | 607,765                               |
| 2011-12         | 319,083                                               | 1.000                                                     | 319,083                                | 319,083                               |
| 2012-13         | 325,457                                               | 1.000                                                     | 325,457                                | 325,457                               |
| 2013-14         | 659,638                                               | 1.000                                                     | 659,638                                | 659,638                               |
| 2014-15         | 338,334                                               | 1.025                                                     | 346,708                                | 388,809                               |
| 2015-16         | 636,501                                               | 1.025                                                     | 652,255                                | 650,533                               |
| 2016-17         | 244,469                                               | 1.030                                                     | 251,786                                | 248,908                               |
| 2017-18         | 370,957                                               | 1.019                                                     | 378,139                                | 371,088                               |
| 2018-19         | 426,033                                               | 1.008                                                     | 429,561                                | 479,992                               |
| 2019-20         | 292,573                                               | 1.101                                                     | 322,258                                | 409,821                               |
| 2020-21         | 104,539                                               | 3.499                                                     | 365,793                                | 377,452                               |
| Total           | \$6,752,699                                           |                                                           | \$7,085,793                            | \$7,298,976                           |

## Notes:

- (1) Provided by Aims.
- (2) Estimated by BAC.
- (3) (1) x (2), rounded.
- (4) Selected based upon (3) & case incurred values.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projected Unpaid Losses as of June 30, 2021

**Limited Self-Insured Losses Including 4850/TD**

| Program<br>Year | Estimated<br>Ultimate<br>Losses<br>(1) | Projected<br>Paid<br>Losses as of<br>6/30/21<br>(2) | Projected<br>Case<br>Reserves<br>6/30/21<br>(3) | Projected<br>Reported<br>Losses as of<br>6/30/21<br>(4) | Projected<br>IBNR<br>as of<br>6/30/21<br>(5) | Projected<br>Unpaid<br>Losses as of<br>6/30/21<br>(6) |
|-----------------|----------------------------------------|-----------------------------------------------------|-------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|
| 1989-90         | \$749,000                              | \$739,475                                           | \$0                                             | \$739,475                                               | \$9,525                                      | \$9,525                                               |
| 1990-91         | 1,270,000                              | 1,252,255                                           | 14,357                                          | 1,266,613                                               | 3,387                                        | 17,745                                                |
| 1991-92         | 1,470,000                              | 1,455,794                                           | 7,422                                           | 1,463,215                                               | 6,785                                        | 14,206                                                |
| 1992-93         | 1,510,000                              | 1,472,765                                           | 29,889                                          | 1,502,654                                               | 7,346                                        | 37,235                                                |
| 1993-94         | 1,190,000                              | 1,171,457                                           | 12,582                                          | 1,184,039                                               | 5,961                                        | 18,543                                                |
| 1994-95         | 1,000,000                              | 876,422                                             | 101,780                                         | 978,201                                                 | 21,799                                       | 123,578                                               |
| 1995-96         | 1,095,000                              | 1,080,495                                           | 327                                             | 1,080,822                                               | 14,178                                       | 14,505                                                |
| 1996-97         | 1,570,000                              | 1,520,915                                           | 39,979                                          | 1,560,894                                               | 9,106                                        | 49,085                                                |
| 1997-98         | 1,310,000                              | 1,241,738                                           | 47,678                                          | 1,289,416                                               | 20,584                                       | 68,262                                                |
| 1998-99         | 1,680,000                              | 1,555,854                                           | 98,550                                          | 1,654,403                                               | 25,597                                       | 124,146                                               |
| 1999-00         | 1,635,000                              | 1,603,172                                           | 0                                               | 1,603,172                                               | 31,828                                       | 31,828                                                |
| 2000-01         | 2,896,000                              | 2,859,275                                           | 0                                               | 2,859,275                                               | 36,725                                       | 36,725                                                |
| 2001-02         | 2,440,000                              | 2,376,883                                           | 39,158                                          | 2,416,041                                               | 23,959                                       | 63,117                                                |
| 2002-03         | 2,550,000                              | 2,449,636                                           | 47,076                                          | 2,496,713                                               | 53,287                                       | 100,364                                               |
| 2003-04         | 2,222,000                              | 2,167,775                                           | 0                                               | 2,167,775                                               | 54,225                                       | 54,225                                                |
| 2004-05         | 2,160,000                              | 2,065,082                                           | 35,081                                          | 2,100,163                                               | 59,837                                       | 94,918                                                |
| 2005-06         | 1,780,000                              | 1,568,165                                           | 173,852                                         | 1,742,017                                               | 37,983                                       | 211,835                                               |
| 2006-07         | 3,540,000                              | 3,316,640                                           | 133,999                                         | 3,450,639                                               | 89,361                                       | 223,360                                               |
| 2007-08         | 1,930,000                              | 1,566,450                                           | 311,288                                         | 1,877,738                                               | 52,262                                       | 363,550                                               |
| 2008-09         | 2,160,000                              | 2,084,235                                           | 35,372                                          | 2,119,608                                               | 40,392                                       | 75,765                                                |
| 2009-10         | 3,800,000                              | 3,498,173                                           | 64,877                                          | 3,563,050                                               | 236,950                                      | 301,827                                               |
| 2010-11         | 4,800,000                              | 4,325,611                                           | 387,949                                         | 4,713,560                                               | 86,440                                       | 474,389                                               |
| 2011-12         | 3,100,000                              | 2,649,981                                           | 292,960                                         | 2,942,941                                               | 157,059                                      | 450,019                                               |
| 2012-13         | 3,300,000                              | 2,826,034                                           | 280,638                                         | 3,106,672                                               | 193,328                                      | 473,966                                               |
| 2013-14         | 4,000,000                              | 3,718,624                                           | 54,430                                          | 3,773,053                                               | 226,947                                      | 281,376                                               |
| 2014-15         | 2,500,000                              | 1,937,260                                           | 230,564                                         | 2,167,824                                               | 332,176                                      | 562,740                                               |
| 2015-16         | 3,400,000                              | 2,623,264                                           | 340,272                                         | 2,963,536                                               | 436,464                                      | 776,736                                               |
| 2016-17         | 2,600,000                              | 1,411,859                                           | 681,039                                         | 2,092,899                                               | 507,101                                      | 1,188,141                                             |
| 2017-18         | 2,500,000                              | 1,422,985                                           | 462,345                                         | 1,885,330                                               | 614,670                                      | 1,077,015                                             |
| 2018-19         | 4,000,000                              | 1,767,990                                           | 1,114,241                                       | 2,882,231                                               | 1,117,769                                    | 2,232,010                                             |
| 2019-20         | 3,600,000                              | 1,127,631                                           | 1,085,660                                       | 2,213,291                                               | 1,386,709                                    | 2,472,369                                             |
| 2020-21         | 4,400,000                              | 566,288                                             | 1,475,864                                       | 2,042,152                                               | 2,357,848                                    | 3,833,712                                             |
| <b>Total</b>    | <b>\$78,157,000</b>                    | <b>\$62,300,183</b>                                 | <b>\$7,599,231</b>                              | <b>\$69,899,414</b>                                     | <b>\$8,257,586</b>                           | <b>\$15,856,817</b>                                   |

## Notes:

- (1) Page 39, Column (6).
- (2) Page 36, Column (3).
- (3) (4) - (2).
- (4) Page 36, Column (6).
- (5) (1) - (4).
- (6) (1) - (2).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projected Paid and Reported Losses between 1/1/21 and 6/30/21

**Limited Self-Insured Losses Including 4850**

| Program<br>Year | Losses<br>Paid<br>as of<br>12/31/20<br>(1) | Projected<br>Losses<br>Paid<br>1/1/21 -<br>6/30/21<br>(2) | Projected<br>Losses<br>Paid<br>as of<br>6/30/21<br>(3) | Losses<br>Reported<br>as of<br>12/31/20<br>(4) | Projected<br>Losses<br>Reported<br>1/1/21 -<br>6/30/21<br>(5) | Projected<br>Losses<br>Reported<br>as of<br>6/30/21<br>(6) |
|-----------------|--------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|
| 1989-90         | \$738,804                                  | \$671                                                     | \$739,475                                              | \$738,804                                      | \$671                                                         | \$739,475                                                  |
| 1990-91         | 1,251,129                                  | 1,126                                                     | 1,252,255                                              | 1,266,155                                      | 458                                                           | 1,266,613                                                  |
| 1991-92         | 1,454,969                                  | 825                                                       | 1,455,794                                              | 1,462,199                                      | 1,017                                                         | 1,463,215                                                  |
| 1992-93         | 1,470,764                                  | 2,001                                                     | 1,472,765                                              | 1,501,481                                      | 1,172                                                         | 1,502,654                                                  |
| 1993-94         | 1,170,525                                  | 932                                                       | 1,171,457                                              | 1,183,607                                      | 432                                                           | 1,184,039                                                  |
| 1994-95         | 870,556                                    | 5,866                                                     | 876,422                                                | 977,520                                        | 682                                                           | 978,201                                                    |
| 1995-96         | 1,079,840                                  | 655                                                       | 1,080,495                                              | 1,079,840                                      | 982                                                           | 1,080,822                                                  |
| 1996-97         | 1,518,792                                  | 2,123                                                     | 1,520,915                                              | 1,560,385                                      | 509                                                           | 1,560,894                                                  |
| 1997-98         | 1,235,555                                  | 6,183                                                     | 1,241,738                                              | 1,288,468                                      | 949                                                           | 1,289,416                                                  |
| 1998-99         | 1,544,813                                  | 11,041                                                    | 1,555,854                                              | 1,652,397                                      | 2,006                                                         | 1,654,403                                                  |
| 1999-00         | 1,600,386                                  | 2,786                                                     | 1,603,172                                              | 1,600,386                                      | 2,786                                                         | 1,603,172                                                  |
| 2000-01         | 2,856,106                                  | 3,169                                                     | 2,859,275                                              | 2,856,106                                      | 3,169                                                         | 2,859,275                                                  |
| 2001-02         | 2,371,503                                  | 5,380                                                     | 2,376,883                                              | 2,415,418                                      | 623                                                           | 2,416,041                                                  |
| 2002-03         | 2,441,177                                  | 8,460                                                     | 2,449,636                                              | 2,495,174                                      | 1,538                                                         | 2,496,713                                                  |
| 2003-04         | 2,163,250                                  | 4,525                                                     | 2,167,775                                              | 2,163,250                                      | 4,525                                                         | 2,167,775                                                  |
| 2004-05         | 2,057,234                                  | 7,848                                                     | 2,065,082                                              | 2,098,386                                      | 1,777                                                         | 2,100,163                                                  |
| 2005-06         | 1,550,797                                  | 17,367                                                    | 1,568,165                                              | 1,740,896                                      | 1,121                                                         | 1,742,017                                                  |
| 2006-07         | 3,298,475                                  | 18,164                                                    | 3,316,640                                              | 3,448,118                                      | 2,521                                                         | 3,450,639                                                  |
| 2007-08         | 1,534,448                                  | 32,002                                                    | 1,566,450                                              | 1,876,429                                      | 1,309                                                         | 1,877,738                                                  |
| 2008-09         | 2,077,990                                  | 6,246                                                     | 2,084,235                                              | 2,117,790                                      | 1,818                                                         | 2,119,608                                                  |
| 2009-10         | 3,474,980                                  | 23,193                                                    | 3,498,173                                              | 3,541,437                                      | 21,613                                                        | 3,563,050                                                  |
| 2010-11         | 4,287,588                                  | 38,023                                                    | 4,325,611                                              | 4,703,703                                      | 9,856                                                         | 4,713,560                                                  |
| 2011-12         | 2,586,239                                  | 63,742                                                    | 2,649,981                                              | 2,930,282                                      | 12,659                                                        | 2,942,941                                                  |
| 2012-13         | 2,769,390                                  | 56,644                                                    | 2,826,034                                              | 3,062,206                                      | 44,466                                                        | 3,106,672                                                  |
| 2013-14         | 3,689,837                                  | 28,787                                                    | 3,718,624                                              | 3,739,440                                      | 33,613                                                        | 3,773,053                                                  |
| 2014-15         | 1,885,376                                  | 51,883                                                    | 1,937,260                                              | 2,139,063                                      | 28,761                                                        | 2,167,824                                                  |
| 2015-16         | 2,548,699                                  | 74,565                                                    | 2,623,264                                              | 2,893,427                                      | 70,109                                                        | 2,963,536                                                  |
| 2016-17         | 1,283,332                                  | 128,527                                                   | 1,411,859                                              | 2,018,427                                      | 74,472                                                        | 2,092,899                                                  |
| 2017-18         | 1,324,253                                  | 98,732                                                    | 1,422,985                                              | 1,756,006                                      | 129,323                                                       | 1,885,330                                                  |
| 2018-19         | 1,488,497                                  | 279,493                                                   | 1,767,990                                              | 2,658,448                                      | 223,783                                                       | 2,882,231                                                  |
| 2019-20         | 827,704                                    | 299,927                                                   | 1,127,631                                              | 1,798,020                                      | 415,272                                                       | 2,213,291                                                  |
| 2020-21         | 238,531                                    | 327,757                                                   | 566,288                                                | 1,140,071                                      | 902,081                                                       | 2,042,152                                                  |
| <b>Total</b>    | <b>\$60,691,541</b>                        | <b>\$1,608,642</b>                                        | <b>\$62,300,183</b>                                    | <b>\$67,903,339</b>                            | <b>\$1,996,074</b>                                            | <b>\$69,899,414</b>                                        |

## Notes:

- (1) Page 41, Column (1).
- (2) Projected by BAC.
- (3) (1) + (2).
- (4) Page 40, Column (1).
- (5) Projected by BAC.
- (6) (4) + (5).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Estimated Unpaid Losses as of December 31, 2020  
**Limited Self-Insured Losses Including 4850**

| Program<br>Year | Estimated<br>Ultimate<br>Losses<br>(1) | Paid<br>Losses as of<br>12/31/20<br>(2) | Case<br>Reserves<br>12/31/20<br>(3) | Reported<br>Losses as of<br>12/31/20<br>(4) | Estimated<br>IBNR<br>as of<br>12/31/20<br>(5) | Estimated<br>Unpaid<br>Losses as of<br>12/31/20<br>(6) |
|-----------------|----------------------------------------|-----------------------------------------|-------------------------------------|---------------------------------------------|-----------------------------------------------|--------------------------------------------------------|
| 1989-90         | \$749,000                              | \$738,804                               | \$0                                 | \$738,804                                   | \$10,196                                      | \$10,196                                               |
| 1990-91         | 1,270,000                              | 1,251,129                               | 15,025                              | 1,266,155                                   | 3,845                                         | 18,871                                                 |
| 1991-92         | 1,470,000                              | 1,454,969                               | 7,229                               | 1,462,199                                   | 7,801                                         | 15,031                                                 |
| 1992-93         | 1,510,000                              | 1,470,764                               | 30,718                              | 1,501,481                                   | 8,519                                         | 39,236                                                 |
| 1993-94         | 1,190,000                              | 1,170,525                               | 13,082                              | 1,183,607                                   | 6,393                                         | 19,475                                                 |
| 1994-95         | 1,000,000                              | 870,556                                 | 106,964                             | 977,520                                     | 22,480                                        | 129,444                                                |
| 1995-96         | 1,095,000                              | 1,079,840                               | 0                                   | 1,079,840                                   | 15,160                                        | 15,160                                                 |
| 1996-97         | 1,570,000                              | 1,518,792                               | 41,593                              | 1,560,385                                   | 9,615                                         | 51,208                                                 |
| 1997-98         | 1,310,000                              | 1,235,555                               | 52,913                              | 1,288,468                                   | 21,532                                        | 74,445                                                 |
| 1998-99         | 1,680,000                              | 1,544,813                               | 107,584                             | 1,652,397                                   | 27,603                                        | 135,187                                                |
| 1999-00         | 1,635,000                              | 1,600,386                               | 0                                   | 1,600,386                                   | 34,614                                        | 34,614                                                 |
| 2000-01         | 2,896,000                              | 2,856,106                               | 0                                   | 2,856,106                                   | 39,894                                        | 39,894                                                 |
| 2001-02         | 2,440,000                              | 2,371,503                               | 43,915                              | 2,415,418                                   | 24,582                                        | 68,497                                                 |
| 2002-03         | 2,550,000                              | 2,441,177                               | 53,998                              | 2,495,174                                   | 54,826                                        | 108,823                                                |
| 2003-04         | 2,222,000                              | 2,163,250                               | 0                                   | 2,163,250                                   | 58,750                                        | 58,750                                                 |
| 2004-05         | 2,160,000                              | 2,057,234                               | 41,152                              | 2,098,386                                   | 61,614                                        | 102,766                                                |
| 2005-06         | 1,780,000                              | 1,550,797                               | 190,099                             | 1,740,896                                   | 39,104                                        | 229,203                                                |
| 2006-07         | 3,540,000                              | 3,298,475                               | 149,642                             | 3,448,118                                   | 91,882                                        | 241,525                                                |
| 2007-08         | 1,930,000                              | 1,534,448                               | 341,981                             | 1,876,429                                   | 53,571                                        | 395,552                                                |
| 2008-09         | 2,160,000                              | 2,077,990                               | 39,800                              | 2,117,790                                   | 42,210                                        | 82,010                                                 |
| 2009-10         | 3,800,000                              | 3,474,980                               | 66,457                              | 3,541,437                                   | 258,563                                       | 325,020                                                |
| 2010-11         | 4,800,000                              | 4,287,588                               | 416,115                             | 4,703,703                                   | 96,297                                        | 512,412                                                |
| 2011-12         | 3,100,000                              | 2,586,239                               | 344,043                             | 2,930,282                                   | 169,718                                       | 513,761                                                |
| 2012-13         | 3,300,000                              | 2,769,390                               | 292,816                             | 3,062,206                                   | 237,794                                       | 530,610                                                |
| 2013-14         | 4,000,000                              | 3,689,837                               | 49,603                              | 3,739,440                                   | 260,560                                       | 310,163                                                |
| 2014-15         | 2,500,000                              | 1,885,376                               | 253,686                             | 2,139,063                                   | 360,937                                       | 614,624                                                |
| 2015-16         | 3,400,000                              | 2,548,699                               | 344,727                             | 2,893,427                                   | 506,573                                       | 851,301                                                |
| 2016-17         | 2,600,000                              | 1,283,332                               | 735,095                             | 2,018,427                                   | 581,573                                       | 1,316,668                                              |
| 2017-18         | 2,500,000                              | 1,324,253                               | 431,754                             | 1,756,006                                   | 743,994                                       | 1,175,747                                              |
| 2018-19         | 4,000,000                              | 1,488,497                               | 1,169,951                           | 2,658,448                                   | 1,341,552                                     | 2,511,503                                              |
| 2019-20         | 3,600,000                              | 827,704                                 | 970,316                             | 1,798,020                                   | 1,801,980                                     | 2,772,296                                              |
| 2020-21         | 2,200,000                              | 238,531                                 | 901,540                             | 1,140,071                                   | 1,059,929                                     | 1,961,469                                              |
| Total           | \$75,957,000                           | \$60,691,541                            | \$7,211,798                         | \$67,903,339                                | \$8,053,661                                   | \$15,265,459                                           |

## Notes:

- (1) Page 39, Column (6).  
2020-21 value adjusted for 6 month exposure through 12/31/20.
- (2) Page 41, Column (1).
- (3) (4) - (2).
- (4) Page 40, Column (1).
- (5) (1) - (4).
- (6) (3) + (5).

**Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program**

**Actuarial Analysis of the  
Workers' Compensation Program**

**Limited Loss Exhibits  
Including 4850/TD**

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Selected Ultimate Losses  
Limited Self-Insured Losses Including 4850

| Program Year | Limited Reported Projection (1) | Limited Paid Projection (2) | Lim IBNR to Case Reserves Ratio (3) | B-F Limited Method Using Reported (4) | B-F Limited Method Using Paid (5) | Selected Ultimate Losses (6) |
|--------------|---------------------------------|-----------------------------|-------------------------------------|---------------------------------------|-----------------------------------|------------------------------|
| 1989-90      | \$739,706                       | \$746,228                   | \$738,804                           | \$739,484                             | \$745,606                         | 749,000                      |
| 1990-91      | 1,268,682                       | 1,267,551                   | 1,268,890                           | 1,268,834                             | 1,268,543                         | \$1,270,000                  |
| 1991-92      | 1,465,352                       | 1,473,980                   | 1,463,645                           | 1,465,307                             | 1,475,169                         | 1,470,000                    |
| 1992-93      | 1,505,940                       | 1,490,690                   | 1,510,205                           | 1,507,150                             | 1,495,328                         | 1,510,000                    |
| 1993-94      | 1,188,247                       | 1,187,451                   | 1,188,539                           | 1,187,841                             | 1,185,342                         | 1,190,000                    |
| 1994-95      | 982,151                         | 883,632                     | 1,027,579                           | 982,002                               | 884,001                           | 1,000,000                    |
| 1995-96      | 1,085,771                       | 1,096,802                   | 1,079,840                           | 1,087,415                             | 1,102,565                         | 1,095,000                    |
| 1996-97      | 1,570,059                       | 1,544,404                   | 1,584,967                           | 1,569,077                             | 1,543,420                         | 1,570,000                    |
| 1997-98      | 1,297,310                       | 1,258,653                   | 1,319,739                           | 1,297,335                             | 1,258,357                         | 1,310,000                    |
| 1998-99      | 1,665,531                       | 1,581,454                   | 1,707,911                           | 1,663,427                             | 1,576,525                         | 1,680,000                    |
| 1999-00      | 1,614,518                       | 1,644,958                   | 1,600,386                           | 1,616,368                             | 1,648,333                         | 1,635,000                    |
| 2000-01      | 2,882,811                       | 2,947,190                   | 2,856,106                           | 2,892,187                             | 2,980,387                         | 2,896,000                    |
| 2001-02      | 2,440,964                       | 2,471,363                   | 2,430,788                           | 2,436,449                             | 2,455,628                         | 2,440,000                    |
| 2002-03      | 2,531,751                       | 2,590,374                   | 2,513,263                           | 2,526,305                             | 2,570,147                         | 2,550,000                    |
| 2003-04      | 2,222,603                       | 2,399,498                   | 2,163,250                           | 2,223,244                             | 2,381,006                         | 2,222,000                    |
| 2004-05      | 2,134,484                       | 2,223,023                   | 2,110,444                           | 2,132,645                             | 2,208,377                         | 2,160,000                    |
| 2005-06      | 1,771,611                       | 1,694,007                   | 1,789,942                           | 1,767,564                             | 1,684,139                         | 1,780,000                    |
| 2006-07      | 3,510,340                       | 3,655,053                   | 3,481,339                           | 3,511,307                             | 3,642,503                         | 3,540,000                    |
| 2007-08      | 1,911,704                       | 1,726,796                   | 1,944,483                           | 1,906,683                             | 1,721,014                         | 1,930,000                    |
| 2008-09      | 2,160,962                       | 2,382,310                   | 2,125,153                           | 2,154,259                             | 2,311,389                         | 2,160,000                    |
| 2009-10      | 3,627,373                       | 4,061,996                   | 3,554,463                           | 3,661,297                             | 4,199,134                         | 3,800,000                    |
| 2010-11      | 4,787,805                       | 4,911,354                   | 4,770,698                           | 4,795,012                             | 4,931,822                         | 4,800,000                    |
| 2011-12      | 3,016,493                       | 3,040,004                   | 3,011,820                           | 3,012,318                             | 3,007,733                         | 3,100,000                    |
| 2012-13      | 3,211,846                       | 3,372,496                   | 3,165,277                           | 3,192,343                             | 3,265,018                         | 3,300,000                    |
| 2013-14      | 4,017,458                       | 4,734,386                   | 3,762,109                           | 3,934,124                             | 4,313,391                         | 4,000,000                    |
| 2014-15      | 2,372,156                       | 2,516,250                   | 2,302,691                           | 2,418,366                             | 2,600,733                         | 2,500,000                    |
| 2015-16      | 3,463,191                       | 3,662,499                   | 3,299,861                           | 3,381,978                             | 3,448,817                         | 3,400,000                    |
| 2016-17      | 2,483,076                       | 2,008,061                   | 2,810,124                           | 2,599,394                             | 2,404,877                         | 2,600,000                    |
| 2017-18      | 2,311,298                       | 2,358,726                   | 2,278,860                           | 2,530,080                             | 2,740,163                         | 2,500,000                    |
| 2018-19      | 4,036,819                       | 3,306,969                   | 4,574,827                           | 3,810,785                             | 3,347,105                         | 4,000,000                    |
| 2019-20      | 3,569,784                       | 3,261,866                   | 3,725,067                           | 3,536,047                             | 3,441,753                         | 3,600,000                    |
| 2020-21      | 8,819,246                       | 3,977,504                   | 12,467,025                          | 4,305,504                             | 3,654,727                         | 4,400,000                    |
| Total        | \$81,667,042                    | \$77,477,528                | \$85,628,095                        | \$77,112,131                          | \$77,493,054                      | \$78,157,000                 |

- (1) Page 40, Column (3).
- (2) Page 41, Column (3).
- (3) Page 42, Column (6).
- (4) Page 43, Column (6).
- (5) Page 44, Column (6).
- (6) Selected on the basis of (1) - (5).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Reported Loss Development  
**Limited Self-Insured Losses Including 4850**

| Program<br>Year | Cumulative<br>Reported<br>Losses as of<br>12/31/20<br>(1) | Reported<br>Development<br>Factor<br>as of<br>12/31/20<br>(2) | Projected<br>Ultimate<br>Losses<br>(3) |
|-----------------|-----------------------------------------------------------|---------------------------------------------------------------|----------------------------------------|
| 1989-90         | \$738,804                                                 | 1.001                                                         | \$739,706                              |
| 1990-91         | 1,266,155                                                 | 1.002                                                         | 1,268,682                              |
| 1991-92         | 1,462,199                                                 | 1.002                                                         | 1,465,352                              |
| 1992-93         | 1,501,481                                                 | 1.003                                                         | 1,505,940                              |
| 1993-94         | 1,183,607                                                 | 1.004                                                         | 1,188,247                              |
| 1994-95         | 977,520                                                   | 1.005                                                         | 982,151                                |
| 1995-96         | 1,079,840                                                 | 1.005                                                         | 1,085,771                              |
| 1996-97         | 1,560,385                                                 | 1.006                                                         | 1,570,059                              |
| 1997-98         | 1,288,468                                                 | 1.007                                                         | 1,297,310                              |
| 1998-99         | 1,652,397                                                 | 1.008                                                         | 1,665,531                              |
| 1999-00         | 1,600,386                                                 | 1.009                                                         | 1,614,518                              |
| 2000-01         | 2,856,106                                                 | 1.009                                                         | 2,882,811                              |
| 2001-02         | 2,415,418                                                 | 1.011                                                         | 2,440,964                              |
| 2002-03         | 2,495,174                                                 | 1.015                                                         | 2,531,751                              |
| 2003-04         | 2,163,250                                                 | 1.027                                                         | 2,222,603                              |
| 2004-05         | 2,098,386                                                 | 1.017                                                         | 2,134,484                              |
| 2005-06         | 1,740,896                                                 | 1.018                                                         | 1,771,611                              |
| 2006-07         | 3,448,118                                                 | 1.018                                                         | 3,510,340                              |
| 2007-08         | 1,876,429                                                 | 1.019                                                         | 1,911,704                              |
| 2008-09         | 2,117,790                                                 | 1.020                                                         | 2,160,962                              |
| 2009-10         | 3,541,437                                                 | 1.024                                                         | 3,627,373                              |
| 2010-11         | 4,703,703                                                 | 1.018                                                         | 4,787,805                              |
| 2011-12         | 2,930,282                                                 | 1.029                                                         | 3,016,493                              |
| 2012-13         | 3,062,206                                                 | 1.049                                                         | 3,211,846                              |
| 2013-14         | 3,739,440                                                 | 1.074                                                         | 4,017,458                              |
| 2014-15         | 2,139,063                                                 | 1.109                                                         | 2,372,156                              |
| 2015-16         | 2,893,427                                                 | 1.197                                                         | 3,463,191                              |
| 2016-17         | 2,018,427                                                 | 1.230                                                         | 2,483,076                              |
| 2017-18         | 1,756,006                                                 | 1.316                                                         | 2,311,298                              |
| 2018-19         | 2,658,448                                                 | 1.518                                                         | 4,036,819                              |
| 2019-20         | 1,798,020                                                 | 1.985                                                         | 3,569,784                              |
| 2020-21         | 1,140,071                                                 | 7.736                                                         | 8,819,246                              |
| Total           | \$67,903,339                                              |                                                               | \$81,667,042                           |

Notes:

- (1) Provided by Aims.
- (2) Page 47, Column (2), tempered for SIR.
- (3) (1) x (2), rounded.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Paid Loss Development  
**Limited Self-Insured Losses Including 4850**

| Program Year | Cumulative Paid Losses as of 12/31/20<br>(1) | Paid Development Factor as of 12/31/20<br>(2) | Projected Ultimate Losses<br>(3) |
|--------------|----------------------------------------------|-----------------------------------------------|----------------------------------|
| 1989-90      | \$738,804                                    | 1.010                                         | \$746,228                        |
| 1990-91      | 1,251,129                                    | 1.013                                         | 1,267,551                        |
| 1991-92      | 1,454,969                                    | 1.013                                         | 1,473,980                        |
| 1992-93      | 1,470,764                                    | 1.014                                         | 1,490,690                        |
| 1993-94      | 1,170,525                                    | 1.014                                         | 1,187,451                        |
| 1994-95      | 870,556                                      | 1.015                                         | 883,632                          |
| 1995-96      | 1,079,840                                    | 1.016                                         | 1,096,802                        |
| 1996-97      | 1,518,792                                    | 1.017                                         | 1,544,404                        |
| 1997-98      | 1,235,555                                    | 1.019                                         | 1,258,653                        |
| 1998-99      | 1,544,813                                    | 1.024                                         | 1,581,454                        |
| 1999-00      | 1,600,386                                    | 1.028                                         | 1,644,958                        |
| 2000-01      | 2,856,106                                    | 1.032                                         | 2,947,190                        |
| 2001-02      | 2,371,503                                    | 1.042                                         | 2,471,363                        |
| 2002-03      | 2,441,177                                    | 1.061                                         | 2,590,374                        |
| 2003-04      | 2,163,250                                    | 1.109                                         | 2,399,498                        |
| 2004-05      | 2,057,234                                    | 1.081                                         | 2,223,023                        |
| 2005-06      | 1,550,797                                    | 1.092                                         | 1,694,007                        |
| 2006-07      | 3,298,475                                    | 1.108                                         | 3,655,053                        |
| 2007-08      | 1,534,448                                    | 1.125                                         | 1,726,796                        |
| 2008-09      | 2,077,990                                    | 1.146                                         | 2,382,310                        |
| 2009-10      | 3,474,980                                    | 1.169                                         | 4,061,996                        |
| 2010-11      | 4,287,588                                    | 1.145                                         | 4,911,354                        |
| 2011-12      | 2,586,239                                    | 1.175                                         | 3,040,004                        |
| 2012-13      | 2,769,390                                    | 1.218                                         | 3,372,496                        |
| 2013-14      | 3,689,837                                    | 1.283                                         | 4,734,386                        |
| 2014-15      | 1,885,376                                    | 1.335                                         | 2,516,250                        |
| 2015-16      | 2,548,699                                    | 1.437                                         | 3,662,499                        |
| 2016-17      | 1,283,332                                    | 1.565                                         | 2,008,061                        |
| 2017-18      | 1,324,253                                    | 1.781                                         | 2,358,726                        |
| 2018-19      | 1,488,497                                    | 2.222                                         | 3,306,969                        |
| 2019-20      | 827,704                                      | 3.941                                         | 3,261,866                        |
| 2020-21      | 238,531                                      | 16.675                                        | 3,977,504                        |
| Total        | \$60,691,541                                 |                                               | \$77,477,528                     |

Notes:

- (1) Provided by Aims.
- (2) Page 48, Column (2), tempered for SIR.
- (3) (1) x (2), rounded.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

IBNR to Case Reserves Ratio Method  
**Limited Self-Insured Losses Including 4850**

| Program Year | Limited Reported LDF (1) | Limited Paid LDF (2) | Limited IBNR to Case Reserves Ratio (3) | Limited Case Reserves (4) | Estimated IBNR as of Reserves (5) | Estimated Ultimate Losses (6) |
|--------------|--------------------------|----------------------|-----------------------------------------|---------------------------|-----------------------------------|-------------------------------|
| 1989-90      | 1.001                    | 1.010                | 0.140                                   | \$0                       | \$0                               | \$738,804                     |
| 1990-91      | 1.002                    | 1.013                | 0.182                                   | 15,025                    | 2,735                             | 1,268,890                     |
| 1991-92      | 1.002                    | 1.013                | 0.200                                   | 7,229                     | 1,446                             | 1,463,645                     |
| 1992-93      | 1.003                    | 1.014                | 0.284                                   | 30,718                    | 8,724                             | 1,510,205                     |
| 1993-94      | 1.004                    | 1.014                | 0.377                                   | 13,082                    | 4,932                             | 1,188,539                     |
| 1994-95      | 1.005                    | 1.015                | 0.468                                   | 106,964                   | 50,059                            | 1,027,579                     |
| 1995-96      | 1.005                    | 1.016                | 0.546                                   | 0                         | 0                                 | 1,079,840                     |
| 1996-97      | 1.006                    | 1.017                | 0.591                                   | 41,593                    | 24,582                            | 1,584,967                     |
| 1997-98      | 1.007                    | 1.019                | 0.591                                   | 52,913                    | 31,271                            | 1,319,739                     |
| 1998-99      | 1.008                    | 1.024                | 0.516                                   | 107,584                   | 55,514                            | 1,707,911                     |
| 1999-00      | 1.009                    | 1.028                | 0.477                                   | 0                         | 0                                 | 1,600,386                     |
| 2000-01      | 1.009                    | 1.032                | 0.428                                   | 0                         | 0                                 | 2,856,106                     |
| 2001-02      | 1.011                    | 1.042                | 0.350                                   | 43,915                    | 15,370                            | 2,430,788                     |
| 2002-03      | 1.015                    | 1.061                | 0.335                                   | 53,998                    | 18,089                            | 2,513,263                     |
| 2003-04      | 1.027                    | 1.109                | 0.372                                   | 0                         | 0                                 | 2,163,250                     |
| 2004-05      | 1.017                    | 1.081                | 0.293                                   | 41,152                    | 12,058                            | 2,110,444                     |
| 2005-06      | 1.018                    | 1.092                | 0.258                                   | 190,099                   | 49,046                            | 1,789,942                     |
| 2006-07      | 1.018                    | 1.108                | 0.222                                   | 149,642                   | 33,221                            | 3,481,339                     |
| 2007-08      | 1.019                    | 1.125                | 0.199                                   | 341,981                   | 68,054                            | 1,944,483                     |
| 2008-09      | 1.020                    | 1.146                | 0.185                                   | 39,800                    | 7,363                             | 2,125,153                     |
| 2009-10      | 1.024                    | 1.169                | 0.196                                   | 66,457                    | 13,026                            | 3,554,463                     |
| 2010-11      | 1.018                    | 1.145                | 0.161                                   | 416,115                   | 66,995                            | 4,770,698                     |
| 2011-12      | 1.029                    | 1.175                | 0.237                                   | 344,043                   | 81,538                            | 3,011,820                     |
| 2012-13      | 1.049                    | 1.218                | 0.352                                   | 292,816                   | 103,071                           | 3,165,277                     |
| 2013-14      | 1.074                    | 1.283                | 0.457                                   | 49,603                    | 22,669                            | 3,762,109                     |
| 2014-15      | 1.109                    | 1.335                | 0.645                                   | 253,686                   | 163,628                           | 2,302,691                     |
| 2015-16      | 1.197                    | 1.437                | 1.179                                   | 344,727                   | 406,434                           | 3,299,861                     |
| 2016-17      | 1.230                    | 1.565                | 1.077                                   | 735,095                   | 791,697                           | 2,810,124                     |
| 2017-18      | 1.316                    | 1.781                | 1.211                                   | 431,754                   | 522,854                           | 2,278,860                     |
| 2018-19      | 1.518                    | 2.222                | 1.638                                   | 1,169,951                 | 1,916,379                         | 4,574,827                     |
| 2019-20      | 1.985                    | 3.941                | 1.986                                   | 970,316                   | 1,927,047                         | 3,725,067                     |
| 2020-21      | 7.736                    | 16.675               | 12.564                                  | 901,540                   | 11,326,954                        | 12,467,025                    |
| Total        |                          |                      |                                         | \$7,211,798               | \$17,724,756                      | \$85,628,095                  |

Notes:

- (1) Page 40, Column (2).
- (2) Page 41, Column (2).
- (3) [(1) - 1.000] x (2) / [(2) - (1)].
- (4) [Page 40, Column (1)] - [Page 41, Column (1)].
- (5) (3) x (4), rounded.
- (6) (5) + Page 40, Column (1).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Bornhuetter-Ferguson Using Reported Losses  
**Limited Self-Insured Losses Including 4850**

| Program Year | <i>A Priori</i><br>Ultimate<br>Losses<br>(1) | Cumulative<br>Reported Loss<br>Development<br>Factors<br>(2) | Percentage<br>of Losses<br>Not Yet<br>Reported<br>(3) | Expected<br>Unreported<br>Losses<br>(4) | Losses<br>Reported<br>as of<br>12/31/20<br>(5) | Estimated<br>Ultimate<br>Losses<br>(6) |
|--------------|----------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------------------------------|----------------------------------------|
| 1989-90      | \$680,246                                    | 1.001                                                        | 0.1%                                                  | \$680                                   | \$738,804                                      | \$739,484                              |
| 1990-91      | 1,339,504                                    | 1.002                                                        | 0.2%                                                  | 2,679                                   | 1,266,155                                      | 1,268,834                              |
| 1991-92      | 1,553,883                                    | 1.002                                                        | 0.2%                                                  | 3,108                                   | 1,462,199                                      | 1,465,307                              |
| 1992-93      | 1,889,567                                    | 1.003                                                        | 0.3%                                                  | 5,669                                   | 1,501,481                                      | 1,507,150                              |
| 1993-94      | 1,058,389                                    | 1.004                                                        | 0.4%                                                  | 4,234                                   | 1,183,607                                      | 1,187,841                              |
| 1994-95      | 896,323                                      | 1.005                                                        | 0.5%                                                  | 4,482                                   | 977,520                                        | 982,002                                |
| 1995-96      | 1,515,017                                    | 1.005                                                        | 0.5%                                                  | 7,575                                   | 1,079,840                                      | 1,087,415                              |
| 1996-97      | 1,448,682                                    | 1.006                                                        | 0.6%                                                  | 8,692                                   | 1,560,385                                      | 1,569,077                              |
| 1997-98      | 1,266,765                                    | 1.007                                                        | 0.7%                                                  | 8,867                                   | 1,288,468                                      | 1,297,335                              |
| 1998-99      | 1,378,797                                    | 1.008                                                        | 0.8%                                                  | 11,030                                  | 1,652,397                                      | 1,663,427                              |
| 1999-00      | 1,775,806                                    | 1.009                                                        | 0.9%                                                  | 15,982                                  | 1,600,386                                      | 1,616,368                              |
| 2000-01      | 4,009,053                                    | 1.009                                                        | 0.9%                                                  | 36,081                                  | 2,856,106                                      | 2,892,187                              |
| 2001-02      | 2,103,117                                    | 1.011                                                        | 1.0%                                                  | 21,031                                  | 2,415,418                                      | 2,436,449                              |
| 2002-03      | 2,223,613                                    | 1.015                                                        | 1.4%                                                  | 31,131                                  | 2,495,174                                      | 2,526,305                              |
| 2003-04      | 2,222,000                                    | 1.027                                                        | 2.7%                                                  | 59,994                                  | 2,163,250                                      | 2,223,244                              |
| 2004-05      | 2,015,236                                    | 1.017                                                        | 1.7%                                                  | 34,259                                  | 2,098,386                                      | 2,132,645                              |
| 2005-06      | 1,568,735                                    | 1.018                                                        | 1.7%                                                  | 26,668                                  | 1,740,896                                      | 1,767,564                              |
| 2006-07      | 3,510,491                                    | 1.018                                                        | 1.8%                                                  | 63,189                                  | 3,448,118                                      | 3,511,307                              |
| 2007-08      | 1,680,773                                    | 1.019                                                        | 1.8%                                                  | 30,254                                  | 1,876,429                                      | 1,906,683                              |
| 2008-09      | 1,823,431                                    | 1.020                                                        | 2.0%                                                  | 36,469                                  | 2,117,790                                      | 2,154,259                              |
| 2009-10      | 4,994,163                                    | 1.024                                                        | 2.4%                                                  | 119,860                                 | 3,541,437                                      | 3,661,297                              |
| 2010-11      | 5,072,710                                    | 1.018                                                        | 1.8%                                                  | 91,309                                  | 4,703,703                                      | 4,795,012                              |
| 2011-12      | 2,828,817                                    | 1.029                                                        | 2.9%                                                  | 82,036                                  | 2,930,282                                      | 3,012,318                              |
| 2012-13      | 2,768,871                                    | 1.049                                                        | 4.7%                                                  | 130,137                                 | 3,062,206                                      | 3,192,343                              |
| 2013-14      | 2,821,511                                    | 1.074                                                        | 6.9%                                                  | 194,684                                 | 3,739,440                                      | 3,934,124                              |
| 2014-15      | 2,850,029                                    | 1.109                                                        | 9.8%                                                  | 279,303                                 | 2,139,063                                      | 2,418,366                              |
| 2015-16      | 2,960,916                                    | 1.197                                                        | 16.5%                                                 | 488,551                                 | 2,893,427                                      | 3,381,978                              |
| 2016-17      | 3,106,774                                    | 1.230                                                        | 18.7%                                                 | 580,967                                 | 2,018,427                                      | 2,599,394                              |
| 2017-18      | 3,225,308                                    | 1.316                                                        | 24.0%                                                 | 774,074                                 | 1,756,006                                      | 2,530,080                              |
| 2018-19      | 3,379,288                                    | 1.518                                                        | 34.1%                                                 | 1,152,337                               | 2,658,448                                      | 3,810,785                              |
| 2019-20      | 3,504,087                                    | 1.985                                                        | 49.6%                                                 | 1,738,027                               | 1,798,020                                      | 3,536,047                              |
| 2020-21      | 3,634,252                                    | 7.736                                                        | 87.1%                                                 | 3,165,433                               | 1,140,071                                      | 4,305,504                              |
| Total        | \$77,106,154                                 |                                                              |                                                       | \$9,208,792                             | \$67,903,339                                   | \$77,112,131                           |

Notes:

- (1) Page 51, Column (4), or Page 46, Column (6), adjusted for SIR.
- (2) Page 40, Column (2).
- (3)  $100\% - [1.000 / (2)]$ .
- (4)  $(1) \times (3)$ .
- (5) Page 40, Column (1).
- (6)  $(4) + (5)$ .

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Bornhuetter-Ferguson Using Paid Losses  
**Limited Self-Insured Losses Including 4850**

| Program<br>Year | <i>A Priori</i><br>Ultimate<br>Losses<br>(1) | Cumulative<br>Paid Loss<br>Development<br>Factors<br>(2) | Percentage<br>of Losses<br>Not Yet<br>Paid<br>(3) | Expected<br>Unpaid<br>Losses<br>(4) | Losses<br>Paid<br>as of<br>12/31/20<br>(5) | Estimated<br>Ultimate<br>Losses<br>(6) |
|-----------------|----------------------------------------------|----------------------------------------------------------|---------------------------------------------------|-------------------------------------|--------------------------------------------|----------------------------------------|
| 1989-90         | \$680,246                                    | 1.010                                                    | 1.0%                                              | \$6,802                             | \$738,804                                  | \$745,606                              |
| 1990-91         | 1,339,504                                    | 1.013                                                    | 1.3%                                              | 17,414                              | 1,251,129                                  | 1,268,543                              |
| 1991-92         | 1,553,883                                    | 1.013                                                    | 1.3%                                              | 20,200                              | 1,454,969                                  | 1,475,169                              |
| 1992-93         | 1,889,567                                    | 1.014                                                    | 1.3%                                              | 24,564                              | 1,470,764                                  | 1,495,328                              |
| 1993-94         | 1,058,389                                    | 1.014                                                    | 1.4%                                              | 14,817                              | 1,170,525                                  | 1,185,342                              |
| 1994-95         | 896,323                                      | 1.015                                                    | 1.5%                                              | 13,445                              | 870,556                                    | 884,001                                |
| 1995-96         | 1,515,017                                    | 1.016                                                    | 1.5%                                              | 22,725                              | 1,079,840                                  | 1,102,565                              |
| 1996-97         | 1,448,682                                    | 1.017                                                    | 1.7%                                              | 24,628                              | 1,518,792                                  | 1,543,420                              |
| 1997-98         | 1,266,765                                    | 1.019                                                    | 1.8%                                              | 22,802                              | 1,235,555                                  | 1,258,357                              |
| 1998-99         | 1,378,797                                    | 1.024                                                    | 2.3%                                              | 31,712                              | 1,544,813                                  | 1,576,525                              |
| 1999-00         | 1,775,806                                    | 1.028                                                    | 2.7%                                              | 47,947                              | 1,600,386                                  | 1,648,333                              |
| 2000-01         | 4,009,053                                    | 1.032                                                    | 3.1%                                              | 124,281                             | 2,856,106                                  | 2,980,387                              |
| 2001-02         | 2,103,117                                    | 1.042                                                    | 4.0%                                              | 84,125                              | 2,371,503                                  | 2,455,628                              |
| 2002-03         | 2,223,613                                    | 1.061                                                    | 5.8%                                              | 128,970                             | 2,441,177                                  | 2,570,147                              |
| 2003-04         | 2,222,000                                    | 1.109                                                    | 9.8%                                              | 217,756                             | 2,163,250                                  | 2,381,006                              |
| 2004-05         | 2,015,236                                    | 1.081                                                    | 7.5%                                              | 151,143                             | 2,057,234                                  | 2,208,377                              |
| 2005-06         | 1,568,735                                    | 1.092                                                    | 8.5%                                              | 133,342                             | 1,550,797                                  | 1,684,139                              |
| 2006-07         | 3,510,491                                    | 1.108                                                    | 9.8%                                              | 344,028                             | 3,298,475                                  | 3,642,503                              |
| 2007-08         | 1,680,773                                    | 1.125                                                    | 11.1%                                             | 186,566                             | 1,534,448                                  | 1,721,014                              |
| 2008-09         | 1,823,431                                    | 1.146                                                    | 12.8%                                             | 233,399                             | 2,077,990                                  | 2,311,389                              |
| 2009-10         | 4,994,163                                    | 1.169                                                    | 14.5%                                             | 724,154                             | 3,474,980                                  | 4,199,134                              |
| 2010-11         | 5,072,710                                    | 1.145                                                    | 12.7%                                             | 644,234                             | 4,287,588                                  | 4,931,822                              |
| 2011-12         | 2,828,817                                    | 1.175                                                    | 14.9%                                             | 421,494                             | 2,586,239                                  | 3,007,733                              |
| 2012-13         | 2,768,871                                    | 1.218                                                    | 17.9%                                             | 495,628                             | 2,769,390                                  | 3,265,018                              |
| 2013-14         | 2,821,511                                    | 1.283                                                    | 22.1%                                             | 623,554                             | 3,689,837                                  | 4,313,391                              |
| 2014-15         | 2,850,029                                    | 1.335                                                    | 25.1%                                             | 715,357                             | 1,885,376                                  | 2,600,733                              |
| 2015-16         | 2,960,916                                    | 1.437                                                    | 30.4%                                             | 900,118                             | 2,548,699                                  | 3,448,817                              |
| 2016-17         | 3,106,774                                    | 1.565                                                    | 36.1%                                             | 1,121,545                           | 1,283,332                                  | 2,404,877                              |
| 2017-18         | 3,225,308                                    | 1.781                                                    | 43.9%                                             | 1,415,910                           | 1,324,253                                  | 2,740,163                              |
| 2018-19         | 3,379,288                                    | 2.222                                                    | 55.0%                                             | 1,858,608                           | 1,488,497                                  | 3,347,105                              |
| 2019-20         | 3,504,087                                    | 3.941                                                    | 74.6%                                             | 2,614,049                           | 827,704                                    | 3,441,753                              |
| 2020-21         | 3,634,252                                    | 16.675                                                   | 94.0%                                             | 3,416,196                           | 238,531                                    | 3,654,727                              |
| Total           | \$77,106,154                                 |                                                          |                                                   | \$16,801,513                        | \$60,691,541                               | \$77,493,054                           |

Notes:

- (1) Page 43, Column (1).
- (2) Page 41, Column (2).
- (3)  $100\% - [1.000 / (2)]$ .
- (4)  $(1) \times (3)$ .
- (5) Page 41, Column (2).
- (6)  $(4) + (5)$ .

**Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program**

**Actuarial Analysis of the  
Workers' Compensation Program**

**Gross Loss Exhibits**

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Selected Ultimate Losses  
Unlimited Losses Including 4850/TD

| Program Year | Reported Projection<br>(1) | Paid Projection<br>(2) | IBNR to Case Reserves Ratio<br>(3) | B-F Method Using Reported<br>(4) | Frequency Times Severity<br>(5) | Selected Ultimate Losses<br>(6) |
|--------------|----------------------------|------------------------|------------------------------------|----------------------------------|---------------------------------|---------------------------------|
| 1989-90      | \$753,885                  | \$767,829              | \$751,264                          |                                  |                                 | \$757,000                       |
| 1990-91      | 1,446,360                  | 1,394,154              | 1,457,582                          |                                  |                                 | 1,460,000                       |
| 1991-92      | 1,728,917                  | 1,507,676              | 1,789,000                          |                                  |                                 | 1,760,000                       |
| 1992-93      | 2,138,107                  | 2,048,702              | 2,173,213                          |                                  |                                 | 2,160,000                       |
| 1993-94      | 1,197,221                  | 1,212,570              | 1,189,991                          |                                  |                                 | 1,200,000                       |
| 1994-95      | 989,972                    | 903,013                | 1,035,066                          |                                  |                                 | 1,020,000                       |
| 1995-96      | 1,652,978                  | 1,324,495              | 1,847,364                          |                                  |                                 | 1,760,000                       |
| 1996-97      | 1,715,099                  | 1,719,515              | 1,712,333                          |                                  |                                 | 1,720,000                       |
| 1997-98      | 1,527,949                  | 1,495,442              | 1,547,531                          |                                  |                                 | 1,540,000                       |
| 1998-99      | 1,699,201                  | 1,654,760              | 1,723,130                          |                                  |                                 | 1,720,000                       |
| 1999-00      | 2,290,691                  | 2,398,283              | 2,235,976                          |                                  |                                 | 2,275,000                       |
| 2000-01      | 5,293,151                  | 5,262,273              | 5,307,468                          |                                  |                                 | 5,290,000                       |
| 2001-02      | 2,631,861                  | 2,614,669              | 2,638,789                          |                                  |                                 | 2,640,000                       |
| 2002-03      | 2,559,806                  | 2,677,966              | 2,516,773                          |                                  |                                 | 2,560,000                       |
| 2003-04      | 2,222,603                  | 2,399,498              | 2,163,250                          |                                  |                                 | 2,222,000                       |
| 2004-05      | 2,280,186                  | 2,307,038              | 2,271,849                          |                                  |                                 | 2,290,000                       |
| 2005-06      | 1,790,412                  | 1,761,047              | 1,798,116                          |                                  |                                 | 1,800,000                       |
| 2006-07      | 4,030,539                  | 4,152,363              | 4,003,453                          |                                  |                                 | 4,070,000                       |
| 2007-08      | 1,952,975                  | 1,802,546              | 1,982,288                          |                                  |                                 | 1,970,000                       |
| 2008-09      | 2,181,287                  | 2,491,283              | 2,126,267                          |                                  |                                 | 2,160,000                       |
| 2009-10      | 5,854,987                  | 6,294,265              | 5,774,402                          |                                  |                                 | 5,980,000                       |
| 2010-11      | 7,309,663                  | 6,885,415              | 7,390,469                          |                                  |                                 | 7,400,000                       |
| 2011-12      | 3,327,243                  | 3,587,720              | 3,255,432                          | \$3,377,583                      | \$5,240,470                     | 3,400,000                       |
| 2012-13      | 4,768,272                  | 4,381,357              | 4,896,055                          | 4,714,162                        | 4,500,571                       | 4,800,000                       |
| 2013-14      | 8,745,188                  | 9,399,615              | 8,467,581                          | 8,272,322                        | 4,861,286                       | 8,300,000                       |
| 2014-15      | 3,572,808                  | 3,097,014              | 3,863,347                          | 3,671,681                        | 2,729,232                       | 3,800,000                       |
| 2015-16      | 5,959,669                  | 4,344,657              | 7,631,873                          | 5,649,246                        | 4,909,975                       | 5,900,000                       |
| 2016-17      | 2,984,349                  | 2,168,782              | 3,686,978                          | 3,424,242                        | 4,301,706                       | 3,400,000                       |
| 2017-18      | 3,167,423                  | 2,713,987              | 3,528,544                          | 3,705,097                        | 3,975,071                       | 3,500,000                       |
| 2018-19      | 4,502,977                  | 3,591,605              | 5,263,174                          | 4,851,261                        | 6,860,415                       | 4,900,000                       |
| 2019-20      | 3,767,636                  | 3,396,723              | 3,969,586                          | 4,775,526                        | 7,072,090                       | 4,200,000                       |
| 2020-21      | 9,815,935                  | 4,301,413              | 14,269,204                         | 6,451,516                        | 8,471,000                       | 6,500,000                       |
| Total        | \$105,859,350              | \$96,057,675           | \$114,267,349                      |                                  |                                 | \$104,454,000                   |
| 11/12-20/21  | \$50,611,500               | \$40,982,873           | \$58,831,774                       | \$48,892,636                     | \$52,921,816                    | \$48,700,000                    |

(1) Page 47, Column (3).

(2) Page 48, Column (3).

(3) Page 49, Column (6).

(4) Page 50, Column (6).

(5) Page 54, Column (4).

(6) Selected on the basis of (1) - (5).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Reported Loss Development  
Unlimited Losses Including 4850/TD

| Program<br>Year | Cumulative<br>Reported<br>Losses as of<br>12/31/20<br>(1) | Reported<br>Development<br>Factor<br>as of<br>12/31/20<br>(2) | Projected<br>Ultimate<br>Losses<br>(3) |
|-----------------|-----------------------------------------------------------|---------------------------------------------------------------|----------------------------------------|
| 1989-90         | \$751,264                                                 | 1.003                                                         | \$753,885                              |
| 1990-91         | 1,439,514                                                 | 1.005                                                         | 1,446,360                              |
| 1991-92         | 1,717,448                                                 | 1.007                                                         | 1,728,917                              |
| 1992-93         | 2,117,847                                                 | 1.010                                                         | 2,138,107                              |
| 1993-94         | 1,183,607                                                 | 1.012                                                         | 1,197,221                              |
| 1994-95         | 977,520                                                   | 1.013                                                         | 989,972                                |
| 1995-96         | 1,628,196                                                 | 1.015                                                         | 1,652,978                              |
| 1996-97         | 1,685,256                                                 | 1.018                                                         | 1,715,099                              |
| 1997-98         | 1,497,693                                                 | 1.020                                                         | 1,527,949                              |
| 1998-99         | 1,661,484                                                 | 1.023                                                         | 1,699,201                              |
| 1999-00         | 2,235,976                                                 | 1.024                                                         | 2,290,691                              |
| 2000-01         | 5,163,348                                                 | 1.025                                                         | 5,293,151                              |
| 2001-02         | 2,566,556                                                 | 1.025                                                         | 2,631,861                              |
| 2002-03         | 2,495,174                                                 | 1.026                                                         | 2,559,806                              |
| 2003-04         | 2,163,250                                                 | 1.027                                                         | 2,222,603                              |
| 2004-05         | 2,216,799                                                 | 1.029                                                         | 2,280,186                              |
| 2005-06         | 1,740,896                                                 | 1.028                                                         | 1,790,412                              |
| 2006-07         | 3,919,938                                                 | 1.028                                                         | 4,030,539                              |
| 2007-08         | 1,898,842                                                 | 1.029                                                         | 1,952,975                              |
| 2008-09         | 2,117,790                                                 | 1.030                                                         | 2,181,287                              |
| 2009-10         | 5,659,094                                                 | 1.035                                                         | 5,854,987                              |
| 2010-11         | 7,015,848                                                 | 1.042                                                         | 7,309,663                              |
| 2011-12         | 3,120,605                                                 | 1.066                                                         | 3,327,243                              |
| 2012-13         | 4,404,472                                                 | 1.083                                                         | 4,768,272                              |
| 2013-14         | 7,842,754                                                 | 1.115                                                         | 8,745,188                              |
| 2014-15         | 3,069,143                                                 | 1.164                                                         | 3,572,808                              |
| 2015-16         | 4,680,320                                                 | 1.273                                                         | 5,959,669                              |
| 2016-17         | 2,262,015                                                 | 1.319                                                         | 2,984,349                              |
| 2017-18         | 2,271,908                                                 | 1.394                                                         | 3,167,423                              |
| 2018-19         | 2,741,710                                                 | 1.642                                                         | 4,502,977                              |
| 2019-20         | 1,798,020                                                 | 2.095                                                         | 3,767,636                              |
| 2020-21         | 1,140,071                                                 | 8.610                                                         | 9,815,935                              |
| Total           | \$87,184,359                                              |                                                               | \$105,859,350                          |

## Notes:

- (1) Provided by Aims.
- (2) Estimated by BAC.
- (3) (1) x (2), rounded.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Paid Loss Projection  
Unlimited Losses Including 4850/TD

| Program<br>Year | Cumulative<br>Paid<br>Losses as of<br>12/31/20<br>(1) | Paid<br>Development<br>Factor<br>as of<br>12/31/20<br>(2) | Projected<br>Ultimate<br>Losses<br>(3) |
|-----------------|-------------------------------------------------------|-----------------------------------------------------------|----------------------------------------|
| 1989-90         | \$751,264                                             | 1.022                                                     | \$767,829                              |
| 1990-91         | 1,357,758                                             | 1.027                                                     | 1,394,154                              |
| 1991-92         | 1,461,905                                             | 1.031                                                     | 1,507,676                              |
| 1992-93         | 1,981,477                                             | 1.034                                                     | 2,048,702                              |
| 1993-94         | 1,170,525                                             | 1.036                                                     | 1,212,570                              |
| 1994-95         | 870,556                                               | 1.037                                                     | 903,013                                |
| 1995-96         | 1,272,404                                             | 1.041                                                     | 1,324,495                              |
| 1996-97         | 1,643,663                                             | 1.046                                                     | 1,719,515                              |
| 1997-98         | 1,419,209                                             | 1.054                                                     | 1,495,442                              |
| 1998-99         | 1,553,899                                             | 1.065                                                     | 1,654,760                              |
| 1999-00         | 2,235,976                                             | 1.073                                                     | 2,398,283                              |
| 2000-01         | 4,876,257                                             | 1.079                                                     | 5,262,273                              |
| 2001-02         | 2,403,133                                             | 1.088                                                     | 2,614,669                              |
| 2002-03         | 2,441,177                                             | 1.097                                                     | 2,677,966                              |
| 2003-04         | 2,163,250                                             | 1.109                                                     | 2,399,498                              |
| 2004-05         | 2,057,234                                             | 1.121                                                     | 2,307,038                              |
| 2005-06         | 1,550,797                                             | 1.136                                                     | 1,761,047                              |
| 2006-07         | 3,596,235                                             | 1.155                                                     | 4,152,363                              |
| 2007-08         | 1,534,448                                             | 1.175                                                     | 1,802,546                              |
| 2008-09         | 2,077,990                                             | 1.199                                                     | 2,491,283                              |
| 2009-10         | 5,144,326                                             | 1.224                                                     | 6,294,265                              |
| 2010-11         | 5,461,402                                             | 1.261                                                     | 6,885,415                              |
| 2011-12         | 2,746,087                                             | 1.306                                                     | 3,587,720                              |
| 2012-13         | 3,289,771                                             | 1.332                                                     | 4,381,357                              |
| 2013-14         | 6,780,124                                             | 1.386                                                     | 9,399,615                              |
| 2014-15         | 2,161,481                                             | 1.433                                                     | 3,097,014                              |
| 2015-16         | 2,826,329                                             | 1.537                                                     | 4,344,657                              |
| 2016-17         | 1,283,332                                             | 1.690                                                     | 2,168,782                              |
| 2017-18         | 1,436,933                                             | 1.889                                                     | 2,713,987                              |
| 2018-19         | 1,488,497                                             | 2.413                                                     | 3,591,605                              |
| 2019-20         | 827,704                                               | 4.104                                                     | 3,396,723                              |
| 2020-21         | 238,531                                               | 18.033                                                    | 4,301,413                              |
| Total           | \$72,103,673                                          |                                                           | \$96,057,675                           |

## Notes:

- (1) Provided by Aims.
- (2) Estimated by BAC.
- (3) (1) x (2), rounded.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

IBNR to Case Reserves Ratio Method  
Unlimited Losses Including 4850/TD

| Program<br>Year | Reported<br>Development<br>Factor<br>as of<br>12/31/20<br>(1) | Paid<br>Development<br>Factor<br>as of<br>12/31/20<br>(2) | IBNR<br>to Case<br>Reserves<br>Ratio<br>(3) | Case<br>Reserves<br>12/31/20<br>(4) | Estimated<br>IBNR<br>Losses as of<br>12/31/20<br>(5) | Estimated<br>Ultimate<br>Losses<br>(6) |
|-----------------|---------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------|-------------------------------------|------------------------------------------------------|----------------------------------------|
| 1989-90         | 1.003                                                         | 1.022                                                     | 0.192                                       | \$0                                 | \$0                                                  | \$751,264                              |
| 1990-91         | 1.005                                                         | 1.027                                                     | 0.221                                       | 81,757                              | 18,068                                               | 1,457,582                              |
| 1991-92         | 1.007                                                         | 1.031                                                     | 0.280                                       | 255,543                             | 71,552                                               | 1,789,000                              |
| 1992-93         | 1.010                                                         | 1.034                                                     | 0.406                                       | 136,370                             | 55,366                                               | 2,173,213                              |
| 1993-94         | 1.012                                                         | 1.036                                                     | 0.488                                       | 13,082                              | 6,384                                                | 1,189,991                              |
| 1994-95         | 1.013                                                         | 1.037                                                     | 0.538                                       | 106,964                             | 57,546                                               | 1,035,066                              |
| 1995-96         | 1.015                                                         | 1.041                                                     | 0.616                                       | 355,792                             | 219,168                                              | 1,847,364                              |
| 1996-97         | 1.018                                                         | 1.046                                                     | 0.651                                       | 41,593                              | 27,077                                               | 1,712,333                              |
| 1997-98         | 1.020                                                         | 1.054                                                     | 0.635                                       | 78,485                              | 49,838                                               | 1,547,531                              |
| 1998-99         | 1.023                                                         | 1.065                                                     | 0.573                                       | 107,584                             | 61,646                                               | 1,723,130                              |
| 1999-00         | 1.024                                                         | 1.073                                                     | 0.545                                       | 0                                   | 0                                                    | 2,235,976                              |
| 2000-01         | 1.025                                                         | 1.079                                                     | 0.502                                       | 287,091                             | 144,120                                              | 5,307,468                              |
| 2001-02         | 1.025                                                         | 1.088                                                     | 0.442                                       | 163,423                             | 72,233                                               | 2,638,789                              |
| 2002-03         | 1.026                                                         | 1.097                                                     | 0.400                                       | 53,998                              | 21,599                                               | 2,516,773                              |
| 2003-04         | 1.027                                                         | 1.109                                                     | 0.372                                       | 0                                   | 0                                                    | 2,163,250                              |
| 2004-05         | 1.029                                                         | 1.121                                                     | 0.345                                       | 159,565                             | 55,050                                               | 2,271,849                              |
| 2005-06         | 1.028                                                         | 1.136                                                     | 0.301                                       | 190,099                             | 57,220                                               | 1,798,116                              |
| 2006-07         | 1.028                                                         | 1.155                                                     | 0.258                                       | 323,703                             | 83,515                                               | 4,003,453                              |
| 2007-08         | 1.029                                                         | 1.175                                                     | 0.229                                       | 364,394                             | 83,446                                               | 1,982,288                              |
| 2008-09         | 1.030                                                         | 1.199                                                     | 0.213                                       | 39,800                              | 8,477                                                | 2,126,267                              |
| 2009-10         | 1.035                                                         | 1.224                                                     | 0.224                                       | 514,769                             | 115,308                                              | 5,774,402                              |
| 2010-11         | 1.042                                                         | 1.261                                                     | 0.241                                       | 1,554,446                           | 374,621                                              | 7,390,469                              |
| 2011-12         | 1.066                                                         | 1.306                                                     | 0.360                                       | 374,518                             | 134,827                                              | 3,255,432                              |
| 2012-13         | 1.083                                                         | 1.332                                                     | 0.441                                       | 1,114,701                           | 491,583                                              | 4,896,055                              |
| 2013-14         | 1.115                                                         | 1.386                                                     | 0.588                                       | 1,062,630                           | 624,827                                              | 8,467,581                              |
| 2014-15         | 1.164                                                         | 1.433                                                     | 0.875                                       | 907,661                             | 794,204                                              | 3,863,347                              |
| 2015-16         | 1.273                                                         | 1.537                                                     | 1.592                                       | 1,853,991                           | 2,951,553                                            | 7,631,873                              |
| 2016-17         | 1.319                                                         | 1.690                                                     | 1.456                                       | 978,684                             | 1,424,963                                            | 3,686,978                              |
| 2017-18         | 1.394                                                         | 1.889                                                     | 1.505                                       | 834,974                             | 1,256,636                                            | 3,528,544                              |
| 2018-19         | 1.642                                                         | 2.413                                                     | 2.012                                       | 1,253,213                           | 2,521,464                                            | 5,263,174                              |
| 2019-20         | 2.095                                                         | 4.104                                                     | 2.238                                       | 970,316                             | 2,171,566                                            | 3,969,586                              |
| 2020-21         | 8.610                                                         | 18.033                                                    | 14.563                                      | 901,540                             | 13,129,133                                           | 14,269,204                             |
| Total           |                                                               |                                                           |                                             | \$15,080,685                        | \$27,082,990                                         | \$114,267,349                          |

## Notes:

- (1) Page 47, Column (2).
- (2) Page 48, Column (2).
- (3)  $[(1) - 1.000] \times (2) / [(2) - (1)]$ .
- (4) Page 47, Column (1) - Page 48, Column (1).
- (5) (3) x (4), rounded.
- (6) (5) + Page 47, Column (1).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Bornhuetter-Ferguson Using Reported Losses  
**Unlimited Losses Including 4850/TD**

| Program<br>Year | <i>A Priori</i><br>Ultimate<br>Losses<br>(1) | Cumulative<br>Reported Loss<br>Development<br>Factors<br>(2) | Percentage<br>of Losses<br>Not Yet<br>Reported<br>(3) | Expected<br>Unreported<br>Losses<br>(4) | Losses<br>Reported<br>as of<br>12/31/20<br>(5) | Estimated<br>Ultimate<br>Losses<br>(6) |
|-----------------|----------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------------------------------|----------------------------------------|
| 2011-12         | \$4,144,809                                  | 1.066                                                        | 6.2%                                                  | \$256,978                               | \$3,120,605                                    | \$3,377,583                            |
| 2012-13         | 4,074,869                                    | 1.083                                                        | 7.6%                                                  | 309,690                                 | 4,404,472                                      | 4,714,162                              |
| 2013-14         | 4,170,566                                    | 1.115                                                        | 10.3%                                                 | 429,568                                 | 7,842,754                                      | 8,272,322                              |
| 2014-15         | 4,273,319                                    | 1.164                                                        | 14.1%                                                 | 602,538                                 | 3,069,143                                      | 3,671,681                              |
| 2015-16         | 4,506,631                                    | 1.273                                                        | 21.5%                                                 | 968,926                                 | 4,680,320                                      | 5,649,246                              |
| 2016-17         | 4,802,589                                    | 1.319                                                        | 24.2%                                                 | 1,162,227                               | 2,262,015                                      | 3,424,242                              |
| 2017-18         | 5,064,273                                    | 1.394                                                        | 28.3%                                                 | 1,433,189                               | 2,271,908                                      | 3,705,097                              |
| 2018-19         | 5,395,270                                    | 1.642                                                        | 39.1%                                                 | 2,109,551                               | 2,741,710                                      | 4,851,261                              |
| 2019-20         | 5,693,129                                    | 2.095                                                        | 52.3%                                                 | 2,977,506                               | 1,798,020                                      | 4,775,526                              |
| 2020-21         | 6,008,422                                    | 8.610                                                        | 88.4%                                                 | 5,311,445                               | 1,140,071                                      | 6,451,516                              |

## Notes:

- (1) Page 51, Column (4).
- (2) Page 47, Column (2).
- (3)  $100\% - [1.000 / (2)]$ .
- (4)  $(1) \times (3)$ .
- (5) Page 47, Column (1).
- (6)  $(4) + (5)$ .

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

*A Priori* Losses for Bornhuetter-Ferguson  
**Unlimited Losses Including 4850/TD**

| Program<br>Year | <i>A Priori</i><br>Loss<br>Rate<br>(1) | Factor<br>to Remove<br>Trend<br>(2) | Trended<br>Payroll<br>(\$00's)<br>(3) | <i>A Priori</i><br>Ultimate<br>Losses<br>(4) |
|-----------------|----------------------------------------|-------------------------------------|---------------------------------------|----------------------------------------------|
| 2011-12         | \$9.42                                 | 0.739                               | \$595,401                             | \$4,144,809                                  |
| 2012-13         | 9.42                                   | 0.749                               | 577,539                               | 4,074,869                                    |
| 2013-14         | 9.42                                   | 0.759                               | 583,314                               | 4,170,566                                    |
| 2014-15         | 9.42                                   | 0.770                               | 589,147                               | 4,273,319                                    |
| 2015-16         | 9.42                                   | 0.804                               | 595,039                               | 4,506,631                                    |
| 2016-17         | 9.42                                   | 0.840                               | 606,939                               | 4,802,589                                    |
| 2017-18         | 9.42                                   | 0.877                               | 613,009                               | 5,064,273                                    |
| 2018-19         | 9.42                                   | 0.916                               | 625,269                               | 5,395,270                                    |
| 2019-20         | 9.42                                   | 0.957                               | 631,522                               | 5,693,129                                    |
| 2020-21         | 9.42                                   | 1.000                               | 637,837                               | 6,008,422                                    |

## Notes:

- (1) Page 52, Item (5).
- (2) Estimated by BAC.
- (3) Page 74, Column (3).
- (4) (1) x (2) x (3).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

*A Priori* Loss Rate for Bornhuetter-Ferguson Method  
**Unlimited Losses Including 4850/TD**

| Program<br>Year | <i>A Priori</i><br>Ultimate<br>Losses<br>(1) | Estimated<br>Pure<br>Premium<br>Trend<br>(2) | Trended<br>Payroll<br>(\$00's)<br>(3)    | Constant<br>Dollar<br>Loss<br>Rate<br>(4) |
|-----------------|----------------------------------------------|----------------------------------------------|------------------------------------------|-------------------------------------------|
| 2006-07         | \$4,087,923                                  | 1.694                                        | \$639,516                                | \$10.83                                   |
| 2007-08         | 1,898,842                                    | 1.607                                        | 645,911                                  | 4.72                                      |
| 2008-09         | 2,324,539                                    | 1.525                                        | 652,370                                  | 5.43                                      |
| 2009-10         | 6,056,251                                    | 1.446                                        | 632,799                                  | 13.84                                     |
| 2010-11         | 7,117,702                                    | 1.372                                        | 613,815                                  | 15.91                                     |
| 2011-12         | 3,444,293                                    | 1.353                                        | 595,401                                  | 7.83                                      |
| 2012-13         | 4,594,783                                    | 1.335                                        | 577,539                                  | 10.62                                     |
| 2013-14         | 9,036,915                                    | 1.317                                        | 583,314                                  | 20.40                                     |
| 2014-15         | 3,359,527                                    | 1.299                                        | 589,147                                  | 7.41                                      |
| 2015-16         | 5,227,974                                    | 1.244                                        | 595,039                                  | 10.93                                     |
| 2016-17         | 2,626,789                                    | 1.191                                        | 606,939                                  | 5.15                                      |
| 2017-18         | 2,974,860                                    | 1.140                                        | 613,009                                  | 5.53                                      |
| 2018-19         | 4,133,872                                    | 1.091                                        | 625,269                                  | 7.21                                      |
| 2019-20         | 3,642,261                                    | 1.045                                        | 631,522                                  | 6.02                                      |
| 2020-21         | 8,033,857                                    | 1.000                                        | 637,837                                  | 12.60                                     |
| Average         |                                              |                                              |                                          | \$9.63                                    |
| 06/07-19/20     |                                              |                                              |                                          | \$9.42                                    |
|                 |                                              |                                              | (5) Selected A Priori 2020-21 Loss Rate: | \$9.42                                    |

## Notes:

- (1) Page 53, Column (3).
- (2) Estimated by BAC.
- (3) Page 74, Column (3).
- (4)  $(1) \times (2) / (3)$ .
- (5) Selected on the basis of (4).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

*A Priori* Ultimate losses  
**Unlimited Losses Including 4850/TD**

| Program<br>Year | Reported<br>Loss<br>Projection<br>(1) | Paid<br>Loss<br>Projection<br>(2) | <i>A Priori</i><br>Selection<br>(3) |
|-----------------|---------------------------------------|-----------------------------------|-------------------------------------|
| 1989-90         | \$753,885                             | \$767,829                         | \$760,793                           |
| 1990-91         | 1,446,360                             | 1,394,154                         | 1,439,514                           |
| 1991-92         | 1,728,917                             | 1,507,676                         | 1,717,448                           |
| 1992-93         | 2,138,107                             | 2,048,702                         | 2,117,847                           |
| 1993-94         | 1,197,221                             | 1,212,570                         | 1,204,804                           |
| 1994-95         | 989,972                               | 903,013                           | 977,520                             |
| 1995-96         | 1,652,978                             | 1,324,495                         | 1,628,196                           |
| 1996-97         | 1,715,099                             | 1,719,515                         | 1,717,276                           |
| 1997-98         | 1,527,949                             | 1,495,442                         | 1,511,958                           |
| 1998-99         | 1,699,201                             | 1,654,760                         | 1,677,430                           |
| 1999-00         | 2,290,691                             | 2,398,283                         | 2,343,253                           |
| 2000-01         | 5,293,151                             | 5,262,273                         | 5,278,108                           |
| 2001-02         | 2,631,861                             | 2,614,669                         | 2,623,519                           |
| 2002-03         | 2,559,806                             | 2,677,966                         | 2,616,907                           |
| 2003-04         | 2,222,603                             | 2,399,498                         | 2,307,665                           |
| 2004-05         | 2,280,186                             | 2,307,038                         | 2,293,032                           |
| 2005-06         | 1,790,412                             | 1,761,047                         | 1,776,456                           |
| 2006-07         | 4,030,539                             | 4,152,363                         | 4,087,923                           |
| 2007-08         | 1,952,975                             | 1,802,546                         | 1,898,842                           |
| 2008-09         | 2,181,287                             | 2,491,283                         | 2,324,539                           |
| 2009-10         | 5,854,987                             | 6,294,265                         | 6,056,251                           |
| 2010-11         | 7,309,663                             | 6,885,415                         | 7,117,702                           |
| 2011-12         | 3,327,243                             | 3,587,720                         | 3,444,293                           |
| 2012-13         | 4,768,272                             | 4,381,357                         | 4,594,783                           |
| 2013-14         | 8,745,188                             | 9,399,615                         | 9,036,915                           |
| 2014-15         | 3,572,808                             | 3,097,014                         | 3,359,527                           |
| 2015-16         | 5,959,669                             | 4,344,657                         | 5,227,974                           |
| 2016-17         | 2,984,349                             | 2,168,782                         | 2,626,789                           |
| 2017-18         | 3,167,423                             | 2,713,987                         | 2,974,860                           |
| 2018-19         | 4,502,977                             | 3,591,605                         | 4,133,872                           |
| 2019-20         | 3,767,636                             | 3,396,723                         | 3,642,261                           |
| 2020-21         | 9,815,935                             | 4,301,413                         | 8,033,857                           |
| <b>Total</b>    | <b>\$105,859,350</b>                  | <b>\$96,057,675</b>               | <b>\$102,552,114</b>                |

## Notes:

- (1) Page 47, Column (3).
- (2) Page 48, Column (3).
- (3) Selected on the basis of (1) and (2).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Frequency Times Severity Method

| Program<br>Year | Selected<br>Claim<br>Severity<br>(1) | Factor<br>to Remove<br>Trend<br>(2) | Selected<br>Ultimate<br>Claims<br>(3) | Estimated<br>Ultimate<br>Losses<br>(4) |
|-----------------|--------------------------------------|-------------------------------------|---------------------------------------|----------------------------------------|
| 2011-12         | \$98,500                             | 0.739                               | 72                                    | \$5,240,470                            |
| 2012-13         | 98,500                               | 0.749                               | 61                                    | 4,500,571                              |
| 2013-14         | 98,500                               | 0.759                               | 65                                    | 4,861,286                              |
| 2014-15         | 98,500                               | 0.770                               | 36                                    | 2,729,232                              |
| 2015-16         | 98,500                               | 0.804                               | 62                                    | 4,909,975                              |
| 2016-17         | 98,500                               | 0.840                               | 52                                    | 4,301,706                              |
| 2017-18         | 98,500                               | 0.877                               | 46                                    | 3,975,071                              |
| 2018-19         | 98,500                               | 0.916                               | 76                                    | 6,860,415                              |
| 2019-20         | 98,500                               | 0.957                               | 75                                    | 7,072,090                              |
| 2020-21         | 98,500                               | 1.000                               | 86                                    | 8,471,000                              |

## Notes:

- (1) Page 55, Item (5).
- (2) Estimated by BAC.
- (3) Page 56, Column (3).
- (4) (1) x (2) x (3).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Calculation of Expected Claim Severity  
Frequency Times Severity Method  
**Unlimited Losses Including 4850/TD**

| Program<br>Year | <i>A Priori</i><br>Ultimate<br>Losses<br>(1) | Estimated<br>Severity<br>Trend<br>(2) | Selected<br>Claim<br>Count<br>(3) | Trended<br>Claim<br>Severity<br>(4) |
|-----------------|----------------------------------------------|---------------------------------------|-----------------------------------|-------------------------------------|
| 2009-10         | \$6,056,251                                  | 1.446                                 | 57                                | \$153,654                           |
| 2010-11         | 7,117,702                                    | 1.372                                 | 88                                | 110,957                             |
| 2011-12         | 3,444,293                                    | 1.353                                 | 72                                | 64,739                              |
| 2012-13         | 4,594,783                                    | 1.335                                 | 61                                | 100,562                             |
| 2013-14         | 9,036,915                                    | 1.317                                 | 65                                | 183,107                             |
| 2014-15         | 3,359,527                                    | 1.299                                 | 36                                | 121,248                             |
| 2015-16         | 5,227,974                                    | 1.244                                 | 62                                | 104,879                             |
| 2016-17         | 2,626,789                                    | 1.191                                 | 52                                | 60,148                              |
| 2017-18         | 2,974,860                                    | 1.140                                 | 46                                | 73,715                              |
| 2018-19         | 4,133,872                                    | 1.091                                 | 76                                | 59,353                              |
| 2019-20         | 3,642,261                                    | 1.045                                 | 75                                | 50,729                              |
| 2020-21         | 8,033,857                                    | 1.000                                 | 86                                | 93,417                              |
| Average         |                                              |                                       |                                   | \$98,042                            |
| 09/10-19/20     |                                              |                                       |                                   | \$98,500                            |
|                 |                                              |                                       | (5) Selected Severity:            | \$98,500                            |

## Notes:

- (1) Page 53, Column (3).
- (2) Estimated by BAC.
- (3) Page 56, Column (3).
- (4)  $(1) \times (2) / (3)$ .
- (5) Selected on the basis of (4).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Selected Claim Counts

| Program<br>Year | Reported<br>Claim Count<br>Projection<br>(1) | Bornhuetter-<br>Ferguson<br>Method<br>(2) | Selected<br>Claim<br>Count<br>(3) |
|-----------------|----------------------------------------------|-------------------------------------------|-----------------------------------|
| 1989-90         | 40                                           |                                           | 40                                |
| 1990-91         | 49                                           |                                           | 49                                |
| 1991-92         | 46                                           |                                           | 46                                |
| 1992-93         | 37                                           |                                           | 37                                |
| 1993-94         | 50                                           |                                           | 50                                |
| 1994-95         | 45                                           |                                           | 45                                |
| 1995-96         | 45                                           |                                           | 45                                |
| 1996-97         | 54                                           |                                           | 54                                |
| 1997-98         | 61                                           |                                           | 61                                |
| 1998-99         | 55                                           |                                           | 55                                |
| 1999-00         | 51                                           |                                           | 51                                |
| 2000-01         | 63                                           |                                           | 63                                |
| 2001-02         | 71                                           |                                           | 71                                |
| 2002-03         | 75                                           |                                           | 75                                |
| 2003-04         | 74                                           |                                           | 74                                |
| 2004-05         | 68                                           |                                           | 68                                |
| 2005-06         | 54                                           |                                           | 54                                |
| 2006-07         | 76                                           |                                           | 76                                |
| 2007-08         | 59                                           |                                           | 59                                |
| 2008-09         | 80                                           |                                           | 80                                |
| 2009-10         | 57                                           |                                           | 57                                |
| 2010-11         | 88                                           |                                           | 88                                |
| 2011-12         | 72                                           |                                           | 72                                |
| 2012-13         | 61                                           |                                           | 61                                |
| 2013-14         | 65                                           |                                           | 65                                |
| 2014-15         | 36                                           |                                           | 36                                |
| 2015-16         | 62                                           |                                           | 62                                |
| 2016-17         | 52                                           |                                           | 52                                |
| 2017-18         | 46                                           |                                           | 46                                |
| 2018-19         | 76                                           |                                           | 76                                |
| 2019-20         | 75                                           |                                           | 75                                |
| 2020-21         | 124                                          | 86                                        | 86                                |
| Total           | 1,967                                        |                                           | 1,929                             |

## Notes:

- (1) Page 57, Column (3).
- (2) Page 58, Column (6).
- (3) Selected on the basis of (1) and (2).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projection of Ultimate # of Indemnity Claims

| Program<br>Year | Total<br>Indemnity<br>Claims<br>Reported<br>12/31/20<br>(1) | Development<br>Factors<br>as of<br>12/31/20<br>(2) | Projected<br>Ultimate<br>Indemnity<br>Claims<br>(3) |
|-----------------|-------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|
| 1989-90         | 40                                                          | 1.000                                              | 40                                                  |
| 1990-91         | 49                                                          | 1.000                                              | 49                                                  |
| 1991-92         | 46                                                          | 1.000                                              | 46                                                  |
| 1992-93         | 37                                                          | 1.000                                              | 37                                                  |
| 1993-94         | 50                                                          | 1.000                                              | 50                                                  |
| 1994-95         | 45                                                          | 1.000                                              | 45                                                  |
| 1995-96         | 45                                                          | 1.000                                              | 45                                                  |
| 1996-97         | 54                                                          | 1.000                                              | 54                                                  |
| 1997-98         | 61                                                          | 1.000                                              | 61                                                  |
| 1998-99         | 55                                                          | 1.000                                              | 55                                                  |
| 1999-00         | 51                                                          | 1.000                                              | 51                                                  |
| 2000-01         | 63                                                          | 1.000                                              | 63                                                  |
| 2001-02         | 71                                                          | 1.000                                              | 71                                                  |
| 2002-03         | 75                                                          | 1.000                                              | 75                                                  |
| 2003-04         | 74                                                          | 1.000                                              | 74                                                  |
| 2004-05         | 68                                                          | 1.000                                              | 68                                                  |
| 2005-06         | 54                                                          | 1.000                                              | 54                                                  |
| 2006-07         | 76                                                          | 1.000                                              | 76                                                  |
| 2007-08         | 59                                                          | 1.000                                              | 59                                                  |
| 2008-09         | 80                                                          | 1.000                                              | 80                                                  |
| 2009-10         | 57                                                          | 1.000                                              | 57                                                  |
| 2010-11         | 88                                                          | 1.000                                              | 88                                                  |
| 2011-12         | 72                                                          | 1.000                                              | 72                                                  |
| 2012-13         | 61                                                          | 1.000                                              | 61                                                  |
| 2013-14         | 65                                                          | 1.000                                              | 65                                                  |
| 2014-15         | 36                                                          | 1.003                                              | 36                                                  |
| 2015-16         | 61                                                          | 1.011                                              | 62                                                  |
| 2016-17         | 51                                                          | 1.013                                              | 52                                                  |
| 2017-18         | 44                                                          | 1.036                                              | 46                                                  |
| 2018-19         | 73                                                          | 1.041                                              | 76                                                  |
| 2019-20         | 69                                                          | 1.080                                              | 75                                                  |
| 2020-21         | 48                                                          | 2.578                                              | 124                                                 |
| Total           | 1,878                                                       |                                                    | 1,967                                               |

## Notes:

- (1) Provided by Aims.
- (2) Estimated by BAC.
- (3) (1) x (2), rounded.

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projection of Ultimate # of Indemnity Claims  
Bornhuetter-Ferguson Method

| Program<br>Year | A Priori<br>Claim<br>Count<br>(1) | Claim<br>Development<br>Factor<br>(2) | Estimated<br>Percentage<br>of Claims<br>Unreported<br>(3) | Estimated<br>Unreported<br>Claims<br>(4) | Reported<br>Claims<br>as of<br>12/31/20<br>(5) | Projected<br>Ultimate<br>Claims<br>(6) |
|-----------------|-----------------------------------|---------------------------------------|-----------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------|
| 2020-21         | 62                                | 2.578                                 | 61.2%                                                     | 38                                       | 48                                             | 86                                     |

## Notes:

- (1) Page 59, Item (6).
- (2) Page 57, Column (2).
- (3)  $100\% - [1.000 / (2)]$ .
- (4)  $(1) \times (3)$ .
- (5) Page 57, Column (1).
- (6)  $(4) + (5)$ .

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Calculation of Expected Claim Counts  
A Priori Claim Count

| Program<br>Year | Projected<br>Ultimate<br>Claim<br>Counts<br>(1) | Trended<br>Payroll<br>(\$Millions)<br>(2) | Indicated<br>Claim<br>Frequency<br>(3) |
|-----------------|-------------------------------------------------|-------------------------------------------|----------------------------------------|
| 2011-12         | 72                                              | \$59.5                                    | 1.21                                   |
| 2012-13         | 61                                              | 57.8                                      | 1.06                                   |
| 2013-14         | 65                                              | 58.3                                      | 1.11                                   |
| 2014-15         | 36                                              | 58.9                                      | 0.61                                   |
| 2014-15         | 36                                              | 58.9                                      | 0.61                                   |
| 2015-16         | 62                                              | 59.5                                      | 1.04                                   |
| 2016-17         | 52                                              | 60.7                                      | 0.86                                   |
| 2017-18         | 46                                              | 61.3                                      | 0.75                                   |
| 2018-19         | 76                                              | 62.5                                      | 1.22                                   |
| 2019-20         | 75                                              | 63.2                                      | 1.19                                   |
| 2020-21         | 124                                             | 63.8                                      | 1.94                                   |
| Average         |                                                 |                                           | 1.05                                   |
| 11/12-19/20     |                                                 |                                           | 0.97                                   |
|                 |                                                 | (4) Selected Claim Frequency:             | 0.97                                   |
|                 |                                                 | (5) 2020-21 Trended Payroll (\$Millions): | \$63.8                                 |
|                 |                                                 | (6) 2020-21 A Priori Claim Count:         | 62                                     |

## Notes:

- (1) Page 57, Column (3).
- (2) Page 74, Column (3) / 10,000.
- (3) (1) / (2).
- (4) Selected on the basis of (3).
- (5) Page 74, Column (3) / 10,000.
- (6) (4) x (5).

**Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program**

**Actuarial Analysis of the  
Workers' Compensation Program**

**Future Loss Exhibits**

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Projected Ultimate Unlimited Loss Rate for 2021-22  
**Unlimited Losses Including 4850/TD**

| Program Year  | 2020-21 Level Loss Rate<br>(1) | Expected Increase for 2021-22<br>(2) | Trended Payroll (\$00's)<br>(3) | Projected Ultimate Losses<br>(4) | Projected 2021-22 Unlimited Loss Rate<br>(5) |
|---------------|--------------------------------|--------------------------------------|---------------------------------|----------------------------------|----------------------------------------------|
| 2021-22       | \$10.48                        | 1.045                                | \$637,837                       | <b>6,982,654</b>                 | \$10.54                                      |
|               |                                |                                      | (6) Projected 4850 :            | \$170,000                        |                                              |
|               |                                |                                      | (7) Projected TD :              | \$440,000                        |                                              |
|               | <u>Full Rate</u>               | <u>Excluding 4850 Only</u>           | <u>Excluding TD Only</u>        | <u>Excluding 4850 &amp; TD</u>   |                                              |
| Unlimited     | \$10.54                        | \$10.28                              | \$9.88                          | \$9.62                           |                                              |
| \$1M Limit:   | \$9.55                         | \$9.30                               | \$8.89                          | \$8.63                           |                                              |
| \$750K Limit: | \$9.09                         | \$8.84                               | \$8.43                          | \$8.17                           |                                              |
| \$500K Limit: | \$8.28                         | \$8.02                               | \$7.61                          | \$7.36                           |                                              |
| \$350K Limit: | \$7.42                         | \$7.17                               | \$6.76                          | \$6.50                           |                                              |
| \$250K Limit: | <b>\$6.55</b>                  | <b>\$6.29</b>                        | <b>\$5.88</b>                   | <b>\$5.63</b>                    |                                              |

Notes:

- (1) Page 62, Item (11).
- (2) 4.5% Expected Increase Estimated by BAC.
- (3) Page 74, Column (2).
- (4) (1) x (2) x (3), rounded.
- (5) (4) / [Page 74, Column (2)], rounded.
- (6) Page 28, Item (4).
- (7) Page 29, Item (4).

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

**Unlimited Losses Including 4850/TD**

Projected Future Loss Rate

| Program Year | Estimated Ultimate Losses<br>(1) | Pure Premium Trend<br>(2) | Trended Payroll (\$00's)<br>(3) | Trended Loss Rate<br>(4) |
|--------------|----------------------------------|---------------------------|---------------------------------|--------------------------|
| 2008-09      | \$2,160,000                      | 1.525                     | \$652,370                       | \$5.05                   |
| 2009-10      | 5,980,000                        | 1.446                     | 632,799                         | 13.67                    |
| 2010-11      | 7,400,000                        | 1.372                     | 613,815                         | 16.54                    |
| 2011-12      | 3,400,000                        | 1.353                     | 595,401                         | 7.73                     |
| 2012-13      | 4,800,000                        | 1.335                     | 577,539                         | 11.10                    |
| 2013-14      | 8,300,000                        | 1.317                     | 583,314                         | 18.74                    |
| 2014-15      | 3,800,000                        | 1.299                     | 589,147                         | 8.38                     |
| 2015-16      | 5,900,000                        | 1.244                     | 595,039                         | 12.33                    |
| 2016-17      | 3,400,000                        | 1.191                     | 606,939                         | 6.67                     |
| 2017-18      | 3,500,000                        | 1.140                     | 613,009                         | 6.51                     |
| 2018-19      | 4,900,000                        | 1.091                     | 625,269                         | 8.55                     |
| 2019-20      | 4,200,000                        | 1.045                     | 631,522                         | 6.95                     |

Average \$10.19

(5) Selected Loss Rate: \$10.48

| Program Year | Largest Claim<br>(6) | Severity Trend<br>(7) | LDf<br>(8) | Trended Developed Max Claim<br>(9) |
|--------------|----------------------|-----------------------|------------|------------------------------------|
| 2008-09      | \$430,181            | 1.607                 | 1.030      | \$712,073                          |
| 2009-10      | 2,617,658            | 1.525                 | 1.035      | 4,128,768                          |
| 2010-11      | 1,625,878            | 1.446                 | 1.042      | 2,449,732                          |
| 2011-12      | 354,188              | 1.372                 | 1.066      | 518,058                            |
| 2012-13      | 734,158              | 1.353                 | 1.083      | 1,075,611                          |
| 2013-14      | 2,499,910            | 1.335                 | 1.115      | 3,721,546                          |
| 2014-15      | 895,562              | 1.317                 | 1.164      | 1,373,051                          |
| 2015-16      | 1,125,806            | 1.299                 | 1.273      | 1,862,553                          |
| 2016-17      | 413,603              | 1.244                 | 1.319      | 678,713                            |
| 2017-18      | 566,400              | 1.191                 | 1.394      | 940,238                            |

(10) Factor for Unlimited Retention: 1.000

(11) Unlimited 2020-21 Rate: **\$10.48**

Notes:

- |                          |                                              |
|--------------------------|----------------------------------------------|
| (1) Page 46, Column (6). | (7) Page 55, Column (2). Indexed to 2020-21. |
| (2) Page 52, Column (2). | (8) Page 47, Column (2).                     |
| (3) Page 74, Column (3). | (9) (6) x (7) x (8).                         |
| (4) (1) x (2) / (3).     | (10) Estimated by BAC.                       |
| (5) Based on Column (4). | (11) (5) x (10).                             |
| (6) Provided by Aims.    |                                              |

**Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program**

**Actuarial Analysis of the  
Workers' Compensation Program**

**Discounting Exhibits**

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Discounted Value of Unpaid Losses as of June 30, 2021  
Assuming a 1.0% Interest Rate

**Limited Self-Insured Losses Excluding 4850**

| Program<br>Year | Projected<br>Unpaid<br>Losses<br>(1) | Discount<br>Factor<br>(2) | Discounted<br>Unpaid<br>Losses<br>(3) |
|-----------------|--------------------------------------|---------------------------|---------------------------------------|
| 1989-90         | \$9,525                              | 0.963                     | \$9,174                               |
| 1990-91         | 17,745                               | 0.959                     | 17,012                                |
| 1991-92         | 14,206                               | 0.954                     | 13,558                                |
| 1992-93         | 37,235                               | 0.950                     | 35,379                                |
| 1993-94         | 18,543                               | 0.946                     | 17,541                                |
| 1994-95         | 123,578                              | 0.942                     | 116,408                               |
| 1995-96         | 14,505                               | 0.938                     | 13,606                                |
| 1996-97         | 49,085                               | 0.934                     | 45,858                                |
| 1997-98         | 68,262                               | 0.931                     | 63,524                                |
| 1998-99         | 124,146                              | 0.933                     | 115,789                               |
| 1999-00         | 31,828                               | 0.934                     | 29,736                                |
| 2000-01         | 36,725                               | 0.935                     | 34,354                                |
| 2001-02         | 63,117                               | 0.936                     | 59,099                                |
| 2002-03         | 100,364                              | 0.937                     | 94,038                                |
| 2003-04         | 54,225                               | 0.937                     | 50,832                                |
| 2004-05         | 94,918                               | 0.938                     | 89,007                                |
| 2005-06         | 211,835                              | 0.938                     | 198,682                               |
| 2006-07         | 223,360                              | 0.938                     | 209,511                               |
| 2007-08         | 363,550                              | 0.938                     | 341,013                               |
| 2008-09         | 75,765                               | 0.939                     | 71,118                                |
| 2009-10         | 301,827                              | 0.939                     | 283,327                               |
| 2010-11         | 474,389                              | 0.938                     | 445,065                               |
| 2011-12         | 450,019                              | 0.938                     | 422,150                               |
| 2012-13         | 473,966                              | 0.944                     | 447,198                               |
| 2013-14         | 281,376                              | 0.946                     | 266,189                               |
| 2014-15         | 562,740                              | 0.947                     | 532,729                               |
| 2015-16         | 776,736                              | 0.946                     | 735,089                               |
| 2016-17         | 1,188,141                            | 0.946                     | 1,124,553                             |
| 2017-18         | 1,075,564                            | 0.948                     | 1,019,198                             |
| 2018-19         | 2,220,650                            | 0.947                     | 2,103,358                             |
| 2019-20         | 2,436,243                            | 0.950                     | 2,313,465                             |
| 2020-21         | 3,700,860                            | 0.951                     | 3,520,632                             |
| <b>Total</b>    | <b>\$15,675,027</b>                  |                           | <b>\$14,838,192</b>                   |

(4) Indicated Discount Factor: 0.947

Notes:

- (1) Page 26, Column (6).
- (2) (3) / (1).
- (3) Based upon a 1.0% interest rate.
- (4) [ Sum of Column (3) ] / [ Sum of Column (1) ].

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Discounted Value of 2021-22 Losses as of July 1, 2021  
Assuming a 1.0% Interest rate

Unlimited Losses Including 4850/TD

| Fiscal<br>Year | Projected<br>Loss<br>Payments<br>(1) | Discount<br>Factor<br>(2) | Discounted<br>Value of<br>Payments<br>(3) |
|----------------|--------------------------------------|---------------------------|-------------------------------------------|
| 2021-22        | \$843,117                            | 0.995                     | \$838,933                                 |
| 2022-23        | 1,214,311                            | 0.985                     | 1,196,322                                 |
| 2023-24        | 829,318                              | 0.975                     | 808,943                                   |
| 2024-25        | 631,371                              | 0.966                     | 609,761                                   |
| 2025-26        | 495,334                              | 0.956                     | 473,644                                   |
| 2026-27        | 425,185                              | 0.947                     | 402,542                                   |
| 2027-28        | 300,325                              | 0.937                     | 281,516                                   |
| 2028-29        | 271,862                              | 0.928                     | 252,312                                   |
| 2029-30        | 232,447                              | 0.919                     | 213,596                                   |
| 2030-31        | 203,198                              | 0.910                     | 184,870                                   |
| 2031-32        | 167,584                              | 0.901                     | 150,958                                   |
| 2032-33        | 142,640                              | 0.892                     | 127,217                                   |
| 2033-34        | 134,485                              | 0.883                     | 118,757                                   |
| 2034-35        | 105,447                              | 0.874                     | 92,192                                    |
| 2035-36        | 96,116                               | 0.866                     | 83,202                                    |
| 2036-37        | 87,611                               | 0.857                     | 75,089                                    |
| 2037-38        | 79,858                               | 0.849                     | 67,767                                    |
| 2038-39        | 72,792                               | 0.840                     | 61,159                                    |
| 2039-40        | 66,351                               | 0.832                     | 55,195                                    |
| 2040-41        | 60,479                               | 0.824                     | 49,813                                    |
| 2041-42        | 55,128                               | 0.815                     | 44,955                                    |
| 2042-43        | 50,249                               | 0.807                     | 40,572                                    |
| 2043-44        | 45,803                               | 0.799                     | 36,615                                    |
| 2044-45        | 41,750                               | 0.791                     | 33,045                                    |
| 2045-46        | 38,056                               | 0.784                     | 29,823                                    |
| 46-47 to 52-53 | 291,836                              | 0.737                     | 215,085                                   |
| <b>Total</b>   | <b>\$6,982,654</b>                   |                           | <b>\$6,543,883</b>                        |

(4) Indicated Discount Factor: 0.937

Notes:

- (1) Based upon the observed payment pattern.
- (2) Based upon a 1.0% interest rate.
- (3) (1) x (2).
- (4) [ Sum of Column (3) ] / [ Sum of Column (1) ].

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Discounted Value of 2021-22 Losses as of July 1, 2021  
Assuming a 1.0% Interest rate

\$1 Million SIR  
Limited Self-Insured Losses Including 4850

| Fiscal<br>Year | Projected<br>Loss<br>Payments<br>(1) | Discount<br>Factor<br>(2) | Discounted<br>Value of<br>Payments<br>(3) |
|----------------|--------------------------------------|---------------------------|-------------------------------------------|
| 2021-22        | \$768,520                            | 0.995                     | \$764,706                                 |
| 2022-23        | 1,096,292                            | 0.985                     | 1,080,051                                 |
| 2023-24        | 760,311                              | 0.975                     | 741,631                                   |
| 2024-25        | 574,575                              | 0.966                     | 554,909                                   |
| 2025-26        | 456,886                              | 0.956                     | 436,879                                   |
| 2026-27        | 386,366                              | 0.947                     | 365,790                                   |
| 2027-28        | 272,912                              | 0.937                     | 255,819                                   |
| 2028-29        | 268,868                              | 0.928                     | 249,533                                   |
| 2029-30        | 229,581                              | 0.919                     | 210,962                                   |
| 2030-31        | 199,504                              | 0.910                     | 181,510                                   |
| 2031-32        | 164,400                              | 0.901                     | 148,090                                   |
| 2032-33        | 139,273                              | 0.892                     | 124,215                                   |
| 2033-34        | 115,689                              | 0.883                     | 102,159                                   |
| 2034-35        | 90,512                               | 0.874                     | 79,134                                    |
| 2035-36        | 82,020                               | 0.866                     | 71,001                                    |
| 2036-37        | 74,328                               | 0.857                     | 63,705                                    |
| 2037-38        | 67,359                               | 0.849                     | 57,160                                    |
| 2038-39        | 61,046                               | 0.840                     | 51,290                                    |
| 2039-40        | 55,325                               | 0.832                     | 46,023                                    |
| 2040-41        | 50,142                               | 0.824                     | 41,299                                    |
| 2041-42        | 45,445                               | 0.815                     | 37,060                                    |
| 2042-43        | 41,189                               | 0.807                     | 33,256                                    |
| 2043-44        | 35,268                               | 0.799                     | 28,194                                    |
| 2044-45        | 32,218                               | 0.791                     | 25,501                                    |
| 2045-46        | 29,442                               | 0.784                     | 23,072                                    |
| 46-47 to 52-53 | 231,467                              | 0.736                     | 170,459                                   |
| Total          | \$6,328,939                          |                           | \$5,943,408                               |

(4) Indicated Discount Factor: 0.939

Notes:

- (1) Based upon the observed payment pattern.
- (2) Based upon a 1.0% interest rate.
- (3) (1) x (2).
- (4) [ Sum of Column (3) ] / [ Sum of Column (1) ].

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Discounted Value of 2021-22 Losses as of July 1, 2021  
Assuming a 1.0% Interest rate

\$500,000 SIR

Limited Self-Insured Losses Including 4850

| Fiscal<br>Year | Projected<br>Loss<br>Payments<br>(1) | Discount<br>Factor<br>(2) | Discounted<br>Value of<br>Payments<br>(3) |
|----------------|--------------------------------------|---------------------------|-------------------------------------------|
| 2021-22        | \$669,485                            | 0.995                     | \$666,162                                 |
| 2022-23        | 951,172                              | 0.985                     | 937,081                                   |
| 2023-24        | 665,714                              | 0.975                     | 649,358                                   |
| 2024-25        | 510,555                              | 0.966                     | 493,080                                   |
| 2025-26        | 385,589                              | 0.956                     | 368,705                                   |
| 2026-27        | 329,817                              | 0.947                     | 312,252                                   |
| 2027-28        | 264,362                              | 0.937                     | 247,805                                   |
| 2028-29        | 248,302                              | 0.928                     | 230,446                                   |
| 2029-30        | 231,606                              | 0.919                     | 212,823                                   |
| 2030-31        | 215,923                              | 0.910                     | 196,447                                   |
| 2031-32        | 136,306                              | 0.901                     | 122,784                                   |
| 2032-33        | 114,636                              | 0.892                     | 102,241                                   |
| 2033-34        | 101,894                              | 0.883                     | 89,977                                    |
| 2034-35        | 79,637                               | 0.874                     | 69,626                                    |
| 2035-36        | 70,611                               | 0.866                     | 61,125                                    |
| 2036-37        | 62,553                               | 0.857                     | 53,613                                    |
| 2037-38        | 55,371                               | 0.849                     | 46,987                                    |
| 2038-39        | 48,980                               | 0.840                     | 41,152                                    |
| 2039-40        | 43,300                               | 0.832                     | 36,020                                    |
| 2040-41        | 38,259                               | 0.824                     | 31,511                                    |
| 2041-42        | 33,787                               | 0.815                     | 27,552                                    |
| 2042-43        | 29,823                               | 0.807                     | 24,079                                    |
| 2043-44        | 26,312                               | 0.799                     | 21,034                                    |
| 2044-45        | 23,203                               | 0.791                     | 18,365                                    |
| 2045-46        | 13,897                               | 0.784                     | 10,891                                    |
| 46-47 to 52-53 | 132,551                              | 0.732                     | 97,073                                    |
| Total          | \$5,483,645                          |                           | \$5,168,189                               |

(4) Indicated Discount Factor: 0.942

Notes:

- (1) Based upon the observed payment pattern.
- (2) Based upon a 1.0% interest rate.
- (3) (1) x (2).
- (4) [ Sum of Column (3) ] / [ Sum of Column (1) ].

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Discounted Value of 2021-22 Losses as of July 1, 2021  
Assuming a 1.0% Interest rate

\$350,000 SIR

Limited Self-Insured Losses Including 4850

| Fiscal<br>Year | Projected<br>Loss<br>Payments<br>(1) | Discount<br>Factor<br>(2) | Discounted<br>Value of<br>Payments<br>(3) |
|----------------|--------------------------------------|---------------------------|-------------------------------------------|
| 2021-22        | \$611,236                            | 0.995                     | \$608,203                                 |
| 2022-23        | 852,542                              | 0.985                     | 839,912                                   |
| 2023-24        | 612,738                              | 0.975                     | 597,684                                   |
| 2024-25        | 473,360                              | 0.966                     | 457,159                                   |
| 2025-26        | 372,230                              | 0.956                     | 355,931                                   |
| 2026-27        | 318,118                              | 0.947                     | 301,176                                   |
| 2027-28        | 256,464                              | 0.937                     | 240,401                                   |
| 2028-29        | 240,981                              | 0.928                     | 223,652                                   |
| 2029-30        | 205,726                              | 0.919                     | 189,042                                   |
| 2030-31        | 160,205                              | 0.910                     | 145,755                                   |
| 2031-32        | 105,376                              | 0.901                     | 94,922                                    |
| 2032-33        | 94,261                               | 0.892                     | 84,069                                    |
| 2033-34        | 86,589                               | 0.883                     | 76,462                                    |
| 2034-35        | 72,075                               | 0.874                     | 63,015                                    |
| 2035-36        | 62,802                               | 0.866                     | 54,365                                    |
| 2036-37        | 54,638                               | 0.857                     | 46,829                                    |
| 2037-38        | 47,472                               | 0.849                     | 40,284                                    |
| 2038-39        | 41,199                               | 0.840                     | 34,615                                    |
| 2039-40        | 35,720                               | 0.832                     | 29,715                                    |
| 2040-41        | 30,943                               | 0.824                     | 25,485                                    |
| 2041-42        | 26,783                               | 0.815                     | 21,841                                    |
| 2042-43        | 23,164                               | 0.807                     | 18,703                                    |
| 2043-44        | 20,021                               | 0.799                     | 16,005                                    |
| 2044-45        | 17,291                               | 0.791                     | 13,686                                    |
| 2045-46        | 7,652                                | 0.784                     | 5,997                                     |
| 46-47 to 52-53 | 88,397                               | 0.729                     | 64,400                                    |
| Total          | \$4,917,986                          |                           | \$4,649,308                               |

(4) Indicated Discount Factor: 0.945

Notes:

- (1) Based upon the observed payment pattern.
- (2) Based upon a 1.0% interest rate.
- (3) (1) x (2).
- (4) [ Sum of Column (3) ] / [ Sum of Column (1) ].

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Discounted Value of 2021-22 Losses as of July 1, 2021  
Assuming a 1.0% Interest rate

\$250,000 SIR  
Limited Self-Insured Losses Including 4850

| Fiscal Year    | Projected Loss Payments<br>(1) | Discount Factor<br>(2) | Discounted Value of Payments<br>(3) |
|----------------|--------------------------------|------------------------|-------------------------------------|
| 2021-22        | \$563,152                      | 0.995                  | \$560,357                           |
| 2022-23        | 763,891                        | 0.985                  | 752,575                             |
| 2023-24        | 620,590                        | 0.975                  | 605,342                             |
| 2024-25        | 377,136                        | 0.966                  | 364,228                             |
| 2025-26        | 364,207                        | 0.956                  | 348,259                             |
| 2026-27        | 268,956                        | 0.947                  | 254,632                             |
| 2027-28        | 217,004                        | 0.937                  | 203,413                             |
| 2028-29        | 199,295                        | 0.928                  | 184,964                             |
| 2029-30        | 187,374                        | 0.919                  | 172,178                             |
| 2030-31        | 172,519                        | 0.910                  | 156,958                             |
| 2031-32        | 83,646                         | 0.901                  | 75,348                              |
| 2032-33        | 69,416                         | 0.892                  | 61,911                              |
| 2033-34        | 63,874                         | 0.883                  | 56,404                              |
| 2034-35        | 57,948                         | 0.874                  | 50,664                              |
| 2035-36        | 45,996                         | 0.866                  | 39,817                              |
| 2036-37        | 39,811                         | 0.857                  | 34,121                              |
| 2037-38        | 34,434                         | 0.849                  | 29,221                              |
| 2038-39        | 29,766                         | 0.840                  | 25,009                              |
| 2039-40        | 25,717                         | 0.832                  | 21,393                              |
| 2040-41        | 22,209                         | 0.824                  | 18,292                              |
| 2041-42        | 19,171                         | 0.815                  | 15,633                              |
| 2042-43        | 16,541                         | 0.807                  | 13,355                              |
| 2043-44        | 14,266                         | 0.799                  | 11,404                              |
| 2044-45        | 12,297                         | 0.791                  | 9,733                               |
| 2045-46        | 5,403                          | 0.784                  | 4,234                               |
| 46-47 to 52-53 | 62,437                         | 0.729                  | 45,486                              |
| Total          | \$4,337,058                    |                        | \$4,114,931                         |

(4) Indicated Discount Factor: 0.949

Notes:

- (1) Based upon the observed payment pattern.
- (2) Based upon a 1.0% interest rate.
- (3) (1) x (2).
- (4) [ Sum of Column (3) ] / [ Sum of Column (1) ].

**Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program**

**Actuarial Analysis of the  
Workers' Compensation Program**

**Claims Data Exhibits**

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Cumulative Reported Losses (\$000's) as of December 31, 2020 - Unlimited

| Program<br>Year | <u>Months of Development</u> |                |                |                |                |                |                |                 |                  |                  |                   |
|-----------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|-------------------|
|                 | <u>6</u>                     | <u>18</u>      | <u>30</u>      | <u>42</u>      | <u>54</u>      | <u>66</u>      | <u>78</u>      | <u>90</u>       | <u>102</u>       | <u>114</u>       | <u>126</u>        |
| 1994            |                              |                |                |                |                |                |                |                 |                  | 1,070            | 1,053             |
| 1995            |                              |                |                |                |                |                |                |                 | 746              | 747              | 767               |
| 1996            |                              |                |                |                |                |                |                | 841             | 838              | 849              | 855               |
| 1997            |                              |                |                |                |                |                | 1,502          | 1,656           | 1,665            | 1,676            | 1,682             |
| 1998            |                              |                |                |                |                | 1,124          | 1,054          | 1,035           | 1,027            | 1,028            | 1,086             |
| 1999            |                              |                |                |                | 1,161          | 1,279          | 1,290          | 1,286           | 1,356            | 1,441            | 1,451             |
| 2000            |                              |                |                | 1,082          | 1,243          | 1,263          | 1,230          | 1,277           | 1,471            | 1,557            | 1,970             |
| 2001            |                              |                | 1,697          | 2,579          | 2,857          | 2,668          | 3,101          | 3,477           | 3,769            | 4,114            | 4,088             |
| 2002            |                              | 1,239          | 1,886          | 2,196          | 2,336          | 2,291          | 2,328          | 2,367           | 2,375            | 2,354            | 2,361             |
| 2003            | 644                          | 2,163          | 2,625          | 2,510          | 2,494          | 2,445          | 2,452          | 2,452           | 2,440            | 2,440            | 2,415             |
| 2004            | 676                          | 1,643          | 1,676          | 1,757          | 1,803          | 1,906          | 1,862          | 1,788           | 1,781            | 1,852            | 1,998             |
| 2005            | 882                          | 1,861          | 1,899          | 2,025          | 2,284          | 1,955          | 2,133          | 2,183           | 2,166            | 2,146            | 2,257             |
| 2006            | 507                          | 1,453          | 1,896          | 2,268          | 1,889          | 1,664          | 1,672          | 1,683           | 1,644            | 1,320            | 1,331             |
| 2007            | 696                          | 3,220          | 4,322          | 3,231          | 3,180          | 3,579          | 3,866          | 3,789           | 3,785            | 3,789            | 3,832             |
| 2008            | 317                          | 1,879          | 1,778          | 1,423          | 1,428          | 1,526          | 1,620          | 2,071           | 1,772            | 1,820            | 1,882             |
| 2009            | 488                          | 1,618          | 2,060          | 1,916          | 1,940          | 2,331          | 2,207          | 2,334           | 2,203            | 2,196            | 2,227             |
| 2010            | 657                          | 2,758          | 3,500          | 3,588          | 5,609          | 5,938          | 6,019          | 6,056           | 5,641            | 5,691            | 5,728             |
| 2011            | 1,155                        | 4,758          | 4,564          | 4,256          | 5,135          | 5,490          | 5,466          | 7,107           | 6,557            | 6,906            | 7,016             |
| 2012            | 586                          | 1,659          | 2,086          | 2,501          | 2,742          | 2,972          | 3,170          | 3,349           | 3,137            | 3,121            |                   |
| 2013            | 266                          | 1,347          | 2,301          | 2,538          | 2,916          | 3,165          | 3,810          | 4,108           | 4,404            |                  |                   |
| 2014            | 400                          | 1,704          | 2,849          | 3,714          | 4,357          | 5,318          | 11,077         | 7,843           |                  |                  |                   |
| 2015            | 79                           | 822            | 1,038          | 1,382          | 2,353          | 2,887          | 3,069          |                 |                  |                  |                   |
| 2016            | 464                          | 1,118          | 1,848          | 3,145          | 4,321          | 4,680          |                |                 |                  |                  |                   |
| 2017            | 278                          | 775            | 1,300          | 2,218          | 2,262          |                |                |                 |                  |                  |                   |
| 2018            | 161                          | 1,229          | 1,544          | 2,272          |                |                |                |                 |                  |                  |                   |
| 2019            | 239                          | 1,092          | 2,742          |                |                |                |                |                 |                  |                  |                   |
| 2020            | 324                          | 1,798          |                |                |                |                |                |                 |                  |                  |                   |
| 2021            | 1,140                        |                |                |                |                |                |                |                 |                  |                  |                   |
|                 | <u>6 - 18</u>                | <u>18 - 30</u> | <u>30 - 42</u> | <u>42 - 54</u> | <u>54 - 66</u> | <u>66 - 78</u> | <u>78 - 90</u> | <u>90 - 102</u> | <u>102 - 114</u> | <u>114 - 126</u> | <u>126 - Ult.</u> |
| ALL YR VOL      | 3.730                        | 1.296          | 1.114          | 1.154          | 1.066          | 1.153          | 1.000          | 0.983           | 1.015            | 1.023            |                   |
| REFERENCE       | 2.833                        | 1.264          | 1.106          | 1.057          | 1.036          | 1.023          | 1.011          | 1.013           | 1.009            | 1.005            | 1.042             |
| SELECTED        | 4.109                        | 1.276          | 1.178          | 1.057          | 1.036          | 1.094          | 1.044          | 1.030           | 1.015            | 1.023            | 1.042             |
| CUMULATIVE      | 8.610                        | 2.095          | 1.642          | 1.394          | 1.319          | 1.273          | 1.164          | 1.115           | 1.083            | 1.066            | 1.042             |

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Cumulative Paid Losses (\$000's) as of December 31, 2020 - Unlimited

| Program<br>Year | <u>Months of Development</u> |                |                |                |                |                |                |                 |                  |                  |                   |
|-----------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|-------------------|
|                 | <u>6</u>                     | <u>18</u>      | <u>30</u>      | <u>42</u>      | <u>54</u>      | <u>66</u>      | <u>78</u>      | <u>90</u>       | <u>102</u>       | <u>114</u>       | <u>126</u>        |
| 1994            |                              |                |                |                |                |                |                |                 |                  | 1,022            | 1,027             |
| 1995            |                              |                |                |                |                |                |                |                 | 738              | 743              | 747               |
| 1996            |                              |                |                |                |                |                |                | 838             | 838              | 839              | 843               |
| 1997            |                              |                |                |                |                |                | 1,345          | 1,420           | 1,467            | 1,505            | 1,522             |
| 1998            |                              |                |                |                |                | 882            | 932            | 968             | 989              | 999              | 1,011             |
| 1999            |                              |                |                |                | 988            | 1,102          | 1,188          | 1,232           | 1,338            | 1,361            | 1,382             |
| 2000            |                              |                |                | 688            | 774            | 846            | 931            | 1,029           | 1,136            | 1,254            | 1,684             |
| 2001            |                              |                | 863            | 1,708          | 2,057          | 2,279          | 2,518          | 2,758           | 2,905            | 3,162            | 3,385             |
| 2002            |                              | 654            | 1,162          | 1,499          | 1,859          | 2,047          | 2,128          | 2,155           | 2,183            | 2,213            | 2,248             |
| 2003            | 238                          | 991            | 1,485          | 1,906          | 2,111          | 2,271          | 2,276          | 2,279           | 2,282            | 2,379            | 2,381             |
| 2004            | 116                          | 726            | 1,078          | 1,264          | 1,557          | 1,653          | 1,667          | 1,693           | 1,742            | 1,764            | 1,998             |
| 2005            | 229                          | 1,059          | 1,332          | 1,459          | 1,532          | 1,585          | 1,714          | 1,819           | 1,842            | 1,866            | 1,894             |
| 2006            | 123                          | 646            | 1,005          | 1,124          | 1,211          | 1,254          | 1,262          | 1,269           | 1,272            | 1,275            | 1,277             |
| 2007            | 224                          | 1,357          | 2,048          | 2,507          | 2,751          | 3,107          | 3,160          | 3,248           | 3,329            | 3,355            | 3,375             |
| 2008            | 65                           | 797            | 1,117          | 1,190          | 1,236          | 1,294          | 1,369          | 1,511           | 1,546            | 1,608            | 1,644             |
| 2009            | 156                          | 891            | 1,433          | 1,593          | 1,719          | 1,820          | 1,831          | 1,988           | 1,996            | 2,036            | 2,078             |
| 2010            | 174                          | 1,675          | 2,265          | 2,775          | 3,033          | 4,299          | 4,410          | 4,544           | 4,869            | 5,034            | 5,066             |
| 2011            | 376                          | 2,001          | 3,230          | 3,761          | 3,999          | 4,420          | 4,640          | 4,839           | 5,166            | 5,364            | 5,461             |
| 2012            | 192                          | 728            | 1,366          | 1,855          | 2,059          | 2,215          | 2,375          | 2,491           | 2,589            | 2,746            |                   |
| 2013            | 136                          | 805            | 1,579          | 1,865          | 2,181          | 2,467          | 2,945          | 3,075           | 3,290            |                  |                   |
| 2014            | 161                          | 1,145          | 2,099          | 2,673          | 3,320          | 3,675          | 4,116          | 6,780           |                  |                  |                   |
| 2015            | 23                           | 475            | 772            | 1,150          | 1,376          | 1,801          | 2,161          |                 |                  |                  |                   |
| 2016            | 156                          | 751            | 1,329          | 2,234          | 2,558          | 2,826          |                |                 |                  |                  |                   |
| 2017            | 154                          | 576            | 854            | 1,016          | 1,283          |                |                |                 |                  |                  |                   |
| 2018            | 71                           | 505            | 966            | 1,437          |                |                |                |                 |                  |                  |                   |
| 2019            | 86                           | 722            | 1,488          |                |                |                |                |                 |                  |                  |                   |
| 2020            | 150                          | 828            |                |                |                |                |                |                 |                  |                  |                   |
| 2021            | 239                          |                |                |                |                |                |                |                 |                  |                  |                   |
|                 | <u>6 - 18</u>                | <u>18 - 30</u> | <u>30 - 42</u> | <u>42 - 54</u> | <u>54 - 66</u> | <u>66 - 78</u> | <u>78 - 90</u> | <u>90 - 102</u> | <u>102 - 114</u> | <u>114 - 126</u> | <u>126 - Ult.</u> |
| ALL YR VOL      | 5.889                        | 1.612          | 1.271          | 1.135          | 1.128          | 1.067          | 1.105          | 1.041           | 1.033            | 1.033            |                   |
| REFERENCE       | 3.612                        | 1.682          | 1.292          | 1.175          | 1.122          | 1.085          | 1.062          | 1.052           | 1.040            | 1.039            | 1.261             |
| SELECTED        | 4.394                        | 1.701          | 1.278          | 1.118          | 1.099          | 1.073          | 1.034          | 1.041           | 1.019            | 1.036            | 1.261             |
| CUMULATIVE      | 18.033                       | 4.104          | 2.413          | 1.889          | 1.690          | 1.537          | 1.433          | 1.386           | 1.332            | 1.306            | 1.261             |

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Cumulative # of Indemnity Losses Reported as of December 31, 2020 - Unlimited

| Program<br>Year | <u>Months of Development</u> |                |                |                |                |                |                |                 |                  |                  |                  |                   |
|-----------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|------------------|-------------------|
|                 | <u>6</u>                     | <u>18</u>      | <u>30</u>      | <u>42</u>      | <u>54</u>      | <u>66</u>      | <u>78</u>      | <u>90</u>       | <u>102</u>       | <u>114</u>       | <u>126</u>       | <u>138</u>        |
| 2006            |                              | 52             | 53             | 54             | 54             | 53             | 53             | 53              | 53               | 53               | 53               | 54                |
| 2007            | 32                           | 69             | 74             | 74             | 74             | 74             | 75             | 75              | 75               | 75               | 75               | 76                |
| 2008            | 22                           | 56             | 58             | 59             | 59             | 60             | 60             | 60              | 60               | 60               | 60               | 59                |
| 2009            | 30                           | 78             | 79             | 78             | 78             | 79             | 79             | 80              | 80               | 80               | 80               | 80                |
| 2010            | 25                           | 53             | 55             | 56             | 56             | 56             | 57             | 57              | 57               | 57               | 57               | 57                |
| 2011            | 44                           | 86             | 87             | 86             | 87             | 88             | 88             | 88              | 88               | 88               | 88               |                   |
| 2012            | 25                           | 66             | 68             | 69             | 71             | 73             | 73             | 73              | 73               | 72               |                  |                   |
| 2013            | 19                           | 53             | 56             | 58             | 59             | 59             | 60             | 61              | 61               |                  |                  |                   |
| 2014            | 26                           | 57             | 58             | 61             | 61             | 64             | 65             | 65              |                  |                  |                  |                   |
| 2015            | 9                            | 29             | 33             | 33             | 36             | 36             | 36             |                 |                  |                  |                  |                   |
| 2016            | 21                           | 57             | 60             | 61             | 61             | 61             |                |                 |                  |                  |                  |                   |
| 2017            | 15                           | 48             | 49             | 49             | 51             |                |                |                 |                  |                  |                  |                   |
| 2018            | 16                           | 42             | 44             | 44             |                |                |                |                 |                  |                  |                  |                   |
| 2019            | 24                           | 70             | 73             |                |                |                |                |                 |                  |                  |                  |                   |
| 2020            | 26                           | 69             |                |                |                |                |                |                 |                  |                  |                  |                   |
| 2021            | 48                           |                |                |                |                |                |                |                 |                  |                  |                  |                   |
|                 | <u>6 - 18</u>                | <u>18 - 30</u> | <u>30 - 42</u> | <u>42 - 54</u> | <u>54 - 66</u> | <u>66 - 78</u> | <u>78 - 90</u> | <u>90 - 102</u> | <u>102 - 114</u> | <u>114 - 126</u> | <u>126 - 138</u> | <u>138 - Ult.</u> |
| ALL YR VOL      | 2.494                        | 1.038          | 1.010          | 1.092          | 1.010          | 1.006          | 1.003          | 1.000           | 0.998            | 1.000            | 1.003            |                   |
| SELECTED        | 2.387                        | 1.038          | 1.005          | 1.022          | 1.003          | 1.007          | 1.003          | 1.000           | 1.000            | 1.000            | 1.000            | 1.000             |
| CUMULATIVE      | 2.578                        | 1.080          | 1.041          | 1.036          | 1.013          | 1.011          | 1.003          | 1.000           | 1.000            | 1.000            | 1.000            | 1.000             |

Monterey Bay Area Self Insurance Authority  
Workers' Compensation Program

Program Information

| Program<br>Year | Self-Insured<br>Retention<br>(SIR)<br>(1) | Payroll<br>(\$00's)<br>(2) | Payroll<br>Trended to<br>2020-21<br>(\$00's)<br>(3) |
|-----------------|-------------------------------------------|----------------------------|-----------------------------------------------------|
| 1989-90         | \$250,000                                 | \$0                        | \$0                                                 |
| 1990-91         | 300,000                                   | 0                          | 0                                                   |
| 1991-92         | 250,000                                   | 0                          | 0                                                   |
| 1992-93         | 250,000                                   | 0                          | 0                                                   |
| 1993-94         | 275,000                                   | 0                          | 0                                                   |
| 1994-95         | 300,000                                   | 0                          | 0                                                   |
| 1995-96         | 300,000                                   | 0                          | 0                                                   |
| 1996-97         | 300,000                                   | 0                          | 0                                                   |
| 1997-98         | 300,000                                   | 204,799                    | 584,735                                             |
| 1998-99         | 300,000                                   | 212,991                    | 590,582                                             |
| 1999-00         | 300,000                                   | 267,420                    | 596,488                                             |
| 2000-01         | 300,000                                   | 263,274                    | 602,453                                             |
| 2001-02         | 350,000                                   | 297,462                    | 608,477                                             |
| 2002-03         | 500,000                                   | 346,678                    | 614,562                                             |
| 2003-04         | 10,000,000                                | 401,995                    | 620,708                                             |
| 2004-05         | 500,000                                   | 401,860                    | 626,915                                             |
| 2005-06         | 500,000                                   | 429,640                    | 633,184                                             |
| 2006-07         | 500,000                                   | 428,182                    | 639,516                                             |
| 2007-08         | 500,000                                   | 437,000                    | 645,911                                             |
| 2008-09         | 500,000                                   | 470,000                    | 652,370                                             |
| 2009-10         | 500,000                                   | 455,000                    | 632,799                                             |
| 2010-11         | 250,000                                   | 454,739                    | 613,815                                             |
| 2011-12         | 250,000                                   | 454,479                    | 595,401                                             |
| 2012-13         | 250,000                                   | 422,491                    | 577,539                                             |
| 2013-14         | 250,000                                   | 436,959                    | 583,314                                             |
| 2014-15         | 250,000                                   | 455,957                    | 589,147                                             |
| 2015-16         | 250,000                                   | 472,388                    | 595,039                                             |
| 2016-17         | 250,000                                   | 518,291                    | 606,939                                             |
| 2017-18         | 250,000                                   | 545,055                    | 613,009                                             |
| 2018-19         | 250,000                                   | 590,304                    | 625,269                                             |
| 2019-20         | 250,000                                   | 625,887                    | 631,522                                             |
| 2020-21         | 250,000                                   | 637,837                    | 637,837                                             |
| 2021-22         | ?                                         | 662,712                    | 637,837                                             |

## Notes:

- (1) Provided by MBASIA.
- (2) Provided by MBASIA. 2021-22 estimated by BAC.
- (3) Estimated by BAC.