

ACTUARIAL STUDY OF UNPAID LOSSES AND ALAE AS OF JUNE 30, 2015

CITY OF VIRGINIA BEACH

AUGUST 19, 2015

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Executive Summary

Purpose and Scope

Oliver Wyman Actuarial Consulting, Inc. (Oliver Wyman) was requested by Marsh USA, Inc. (Marsh) and City of Virginia Beach (CVB) to conduct an examination of CVB's retained workers compensation (WC), general liability (GL), and automobile liability (AL) exposures. As part of our analysis, we have estimated the following by line of business:

- Actuarial central estimates of retained unpaid losses and ALAE as of June 30, 2015 based on data evaluated as of June 30, 2015, including amounts for incurred but not reported ("IBNR") claims
- Current (short-term) liability as of June 30, 2015
- Projected ultimate loss and ALAE for the fiscal year 2015/16
- Cash flow projections of unpaid loss and ALAE as of the next fiscal year-end as well as expected payments during the fiscal year

The term "unpaid losses and ALAE" refers to our actuarial estimates of the obligation for future payment resulting from claims due to past events. The unpaid estimates and prospective loss rates presented in this report are intended to represent actuarial central estimates which, consistent with the applicable actuarial standard of practice, we define as the expected value over the range of reasonably possible (as opposed to all conceivable) outcomes.

Our estimates of ultimate loss are based on loss and ALAE data evaluated as of June 30, 2015 and additional information provided to us through August 10, 2015. All estimates are limited to CVB's per-occurrence retentions, and are net of salvage and subrogation recoveries. CVB's retentions are summarized in the *Background* section of the report.

We understand there are seven open WC claims for accidents occurring prior to July 1, 1985, with case reserves of \$27,770 to cover future prescription drug costs. For these claims, we have added in the case reserves to our figures, but have not calculated any additional IBNR.

Throughout this report, all references to losses include ALAE unless otherwise specified. Also, unless otherwise stated, any reference to the terms "incurred", "paid plus case outstanding", and "reported" refer to the same type of data and have been used interchangeably throughout the report.

Actuarial Findings

Projected Unpaid Losses as of June 30, 2015

We have estimated unpaid losses and ALAE for CVB's self-insurance program as of June 30, 2015. The table below presents the unpaid estimates by line of business and in total on an undiscounted basis. All estimates reflect CVB's retentions. In addition, we have calculated the current (or short-term) liability as of June 30, 2015. The current liability is defined as the expected payments over the next twelve months for accidents occurring through June 30, 2015. Please see Exhibit 1, Sheet 1 of each line of business section for detail by fiscal year.

Unpaid Losses and ALAE as of June 30, 2015			
Line of Business	Case Reserve	IBNR Reserve	Total Unpaid Loss & ALAE
Workers Compensation	\$11,627,022	\$17,146,134	\$28,773,156
General Liability	301,968	905,482	1,207,450
Automobile Liability	230,185	646,803	876,988
All Lines Combined	\$12,159,175	\$18,698,419	\$30,857,594

Current (Short-term) Liability as of June 30, 2015		
Line of Business	Current Liability	
Workers Compensation	\$5,392,726	19%
General Liability	491,485	41%
Automobile Liability	507,081	58%
All Lines Combined	\$6,391,293	21%

The percentages in the above table represent the short-term liability divided by the total unpaid loss and ALAE as of June 30, 2015.

Funding Estimate for Fiscal Year 2016

At CVB's request, we have estimated ultimate losses and ALAE by line of business for fiscal year, including accidents occurring from July 1, 2015 through June 30, 2016. These future estimates rely heavily on projected exposures, as estimated by CVB. For details of the forecast calculations, please see Exhibit 3, Sheet 1 of each line of business.

Funding Estimate of Ultimate Loss and ALAE for Fiscal Year 2016	
Line of Business	Funding Estimate
Workers Compensation	\$11,187,072
General Liability	687,481
Automobile Liability	762,419
All Lines Combined	\$12,636,972

Projections of Payments and Unpaid Losses

Projections of unpaid loss and ALAE as of the end of fiscal year 2016 as well as expected payments during the fiscal year can be found on Exhibit 1, Sheet 1 of each section.

Relevant Comments

Comparison with Prior Report

The comparisons below are based on data evaluated as of June 30, 2015 in our current report and data evaluated as of April 30, 2013 in our prior report. Our comparisons are made to the prior actuarial central estimate, adjusted for changes in estimated exposures and changes in retentions since our prior report.

Workers Compensation

Actual retained reported losses on fiscal years July 1, 1990 through June 30, 2013 have increased \$8.664 million since our prior report using data as of April 30, 2013 compared to our projected increase of approximately \$6.279 million. Our estimated ultimate loss and ALAE for these periods has increased by \$4.017 million. Details of actual versus expected emergence can be found in Exhibit 8.

CVB has changed third-party administrators (TPAs) several times during the past ten years for WC claims handling. From 1990 through June 30, 2007, CVB utilized CMI Octagon (CMI) as their TPA. From July 1, 2007 through October 30, 2008, CVB used Schaffer Companies. Beginning November 1, 2008, CVB switched to Sedgwick CMS (Sedgwick). Beginning November 1, 2012, CVB switched to CorVel. Whenever there is a switch in TPAs, there is additional uncertainty in our estimates as the new TPA may have a different philosophy for reserving and settling claims than the prior TPA. For instance, when CVB began utilizing Schaffer, we noted decreases in case reserves of approximately \$1.5 million in the loss runs provided by CorVel compared to our report completed one year prior when the claims were

being handled by CMI. Ratios of paid-to-incurred losses were materially higher for fiscal years 2006/07 and 2007/08, which we offered could be attributable to weakened case reserve adequacy as compared to prior years under CMI's claims management. In contrast, during the first two years after Sedgwick took over claims handling, they increased case reserves by \$10.9 million compared to the case reserves under Schaffer. In the following two reports, we observed favorable development. In this report, we have observed adverse development, especially in medical costs and ALAE costs. We will continue to monitor the development as more data becomes available. The change in administrators increases the uncertainty of the underlying loss development data as well.

General Liability

Reported retained losses on fiscal years July 1, 2004 through June 30, 2013 have increased \$832 thousand since our prior report using data as of April 30, 2013 compared to our projected increase of \$637 thousand. The adverse development is due to one late reported claim in fiscal year 2009. Our estimated ultimate loss and ALAE for these periods has increased by \$291 thousand since our prior report.

Automobile Liability

Reported retained losses on fiscal years July 1, 2004 through June 30, 2013 have decreased \$52 thousand since our prior report using April 30, 2013 data compared to our projected increase of approximately \$841 thousand. Several older claims have decreased and closed since our prior analysis. Our estimated ultimate loss and ALAE for these periods has decreased by \$823 thousand since our prior report due to the favorable development.

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Background

City of Virginia Beach retains a significant portion of its workers compensation, general liability and automobile liability exposure. The retained limits of liability differ by line of business and by policy period, but range from \$200,000 to \$2,000,000 on a per occurrence basis. For all years and lines of business, ALAE combines with loss to erode the retention.

Historical Program Retentions			
Policy Period	Workers Compensation	General Liability	Automobile Liability
7/1/1985 – 6/30/1987	\$200,000	\$1,000,000	\$1,000,000
7/1/1987 – 6/30/1988	\$250,000	\$1,000,000	\$1,000,000
7/1/1988 – 6/30/1989	\$300,000	\$1,000,000	\$1,000,000
7/1/1989 – 6/30/1990	\$400,000	\$1,000,000	\$1,000,000
7/1/1990 – 6/30/1992	\$450,000	\$1,000,000	\$1,000,000
7/1/1992 – 6/30/2005	\$500,000	\$2,000,000	\$2,000,000
7/1/2005 – 6/30/2006	\$750,000	\$2,000,000	\$2,000,000
7/1/2006 – 6/30/2007	\$750,000*	\$2,000,000	\$2,000,000
7/1/2007 – 6/30/2012	\$850,000	\$2,000,000	\$2,000,000
7/1/2012 - 6/30/2013	\$1,000,000	\$2,000,000	\$2,000,000
7/1/2013 – 6/30/2015	\$1,250,000	\$2,000,000	\$2,000,000

* The WC retention changed from \$750,000 to \$850,000 on March 1, 2007.

Though CVB has deductible exposure back to 1985 for GL and AL, we are only including policy years back to 2004/05 in our analysis for GL and AL since all claims are closed in prior policy years.

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Data

Loss data was provided by CVB. For WC, the data is net of non-insurance recoveries such as subrogation. For automobile liability and general liability, the data is gross of recoveries due to systems issues where recoveries could not be removed consistently. The loss data includes ALAE and is valued as of June 30, 2015.

We also received AL, GL, and WC loss runs as of 4/30/14 and 4/30/15 to update our triangles.

The exposure data includes payroll, revenue and vehicle count and is presented on a consistent basis as the loss data defined above.

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Methodology

To determine our estimate of ultimate loss and ALAE for AL, GL, and WC, we applied a number of generally accepted actuarial techniques. These include the following methods:

- Paid development method
- Reported development method
- Case reserve development method
- Reported Bornhuetter-Ferguson method
- Paid Bornhuetter-Ferguson method

Under the **reported development method**, the historical reporting pattern is applied directly to the reported loss and ALAE (case reserves plus cumulative paid loss and ALAE) to estimate ultimate loss and ALAE. Paid to date loss and ALAE are then deducted from the estimated ultimate loss and ALAE to produce the estimated total outstanding unpaid. The incurred but not reported (IBNR) reserve equals the total outstanding loss and ALAE reserves minus the case reserves.

We selected loss development patterns based on an analysis of CVB and insurance industry loss development experience. Loss development patterns were selected at the various per occurrence retentions. For WC, we estimated insurance industry loss development factors based on information from NCCI for the State of Virginia. For GL and AL, we estimated insurance industry countrywide loss development factors based on information from AM Best.

The advantages of the reported development method are that reported loss and ALAE provide a larger statistical data base than paid loss and ALAE (since case reserves are used in addition to payments) and that reported loss and ALAE provide more current information (since payments lag behind the establishment of case reserves). A disadvantage of the reported development method is that its predictive accuracy is dependent on consistent case reserving practices and philosophies.

Under the **paid development method**, a mathematical procedure similar to the reported development method is used. Paid loss and ALAE are used in place of reported loss and ALAE and historical payment patterns are used in place of reporting patterns.

Under the **case reserve development method**, a historical reporting and payment pattern is used to estimate the ratio of unreported loss and ALAE to the case reserves as of the evaluation date. This ratio is then multiplied by the actual case reserves to produce estimated unreported loss and ALAE. Estimated ultimate loss and ALAE equals the sum of the actual paid loss and ALAE, the actual case reserves, and the estimated unreported loss and ALAE. This method is

helpful where there are few open claims or where the history of cumulative paid loss and ALAE is deemed unreliable.

Under the **reported Bornhuetter-Ferguson method**, an historical reporting pattern is used to estimate the percentage of ultimate loss and ALAE which is unreported as of the evaluation date. This percentage is then multiplied by an initial expected ultimate loss and ALAE to produce estimated unreported loss and ALAE. The initial expected ultimate loss and ALAE are based on our review of historical loss costs. Estimated unreported loss and ALAE is also known as IBNR. Estimated ultimate loss and ALAE equals the sum of the actual reported loss and ALAE and the estimated unreported loss and ALAE.

The advantage of the reported Bornhuetter-Ferguson method is that estimates of ultimate loss and ALAE tend to be more stable than estimates produced by the reported development method. This is because the estimates based on the reported Bornhuetter-Ferguson method are a weighted average between the estimate based on the reported development method and the expected ultimate loss and ALAE. A disadvantage of the Bornhuetter-Ferguson method is that the estimates are slow to react to changes in reserving practices and are sensitive to a priori estimates of ultimate loss and ALAE.

Under the **paid Bornhuetter-Ferguson method**, a mathematical procedure similar to the reported Bornhuetter-Ferguson method is used. Paid loss and ALAE is used in place of reported loss and ALAE and historical payment patterns are used in place of reporting patterns.

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Distribution and Use

This report was prepared for the sole use of CVB's management in their process of establishing a liability estimate for their WC self-insured program for internal and external financial reporting. All decisions in connection with the implementation or use of advice or recommendations contained in this report are the sole responsibility of CVB.

Oliver Wyman's consent to any distribution of this report (whether herein or in the written agreement pursuant to which this report has been issued) to parties other than CVB does not constitute advice by Oliver Wyman to any such third parties and shall be solely for informational purposes and not for purposes of reliance by any such third parties. Oliver Wyman assumes no liability related to third party use of this report or any actions taken or decisions made as a consequence of the results, advice or recommendations set forth herein. This report should not replace the due diligence on behalf of any such third party.

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Considerations and Limitations

For our analysis, we relied on data and information provided by CVB without independent audit. Though we have reviewed the data for reasonableness and consistency, we have not audited or otherwise verified this data. It should also be noted that our review of data may not always reveal imperfections. We have assumed that the data provided is both accurate and complete. The results of our analysis are dependent on this assumption. If this data or information is inaccurate or incomplete, our findings and conclusions may need to be revised.

The prospective fiscal year estimates developed in this analysis are based on estimated loss costs and the projected exposures. It should be noted that prospective period loss and ALAE estimates are directly related to the projected exposures. Therefore, if actual exposures differ from the projection, prospective fiscal year estimates would need to be adjusted accordingly.

Where CVB's own historical data was either (i) not available, (ii) not appropriate or (iii) not sufficiently credible to develop our actuarial assumptions, we supplemented it with external information, as we deemed appropriate. Although we believe these external sources may be more predictive of future CVB experience than any other data of which we are aware, the use of external data adds to the uncertainty associated with our projections.

The change in administrators for WC increases the uncertainty in our WC estimates. The volatility in GL and AL due to high retentions and a lack of statistical credibility of historical large losses increases the uncertainty in our estimates for GL and AL.

The scope of the project does not include the estimation of any costs other than those described herein. Such ancillary costs may include unallocated loss adjustment expenses (ULAE); excess insurance premiums; the costs of trustee, legal, administrative, risk management and actuarial services; fees and assessments; and costs for surety bonds or letters of credit pertaining to claim liabilities.

All excess insurance is considered to be valid and fully collectible. We made no assessment, and do not express any opinion, concerning the collectability of any excess insurance. We have not evaluated the financial strength, claims paying ability or any other factors with regard to CVB's past, current, and/or prospective excess insurers. We have not included any provision for losses exceeding the policy limits of the coverage provided by excess insurers.

We have not examined, nor do we express any opinion regarding, the assets, if any, that are used to provide for the payment obligations associated with the estimates of unpaid costs presented in this report.

Our models may retain more digits than those displayed. In addition, the results of certain calculations may be presented in the exhibits with more or less digits than would be considered significant. As a result, it should be recognized that (i) there may be rounding differences between the results of calculations presented in the exhibits and replications of those calculations based on displayed underlying amounts, and (ii) calculation results may not have been adjusted to reflect the precision of the calculation.

Our conclusions are based on an analysis of the CVB data and on the estimation of the outcome of many contingent events. Future costs were developed from the historical claim experience and covered exposure, with adjustments for anticipated changes. Our estimates make no provision for extraordinary future emergence of new classes of losses or types of losses not sufficiently represented in historical databases or which are not yet quantifiable.

The sources of uncertainty affecting our estimates are numerous and include factors internal and external to CVB. Internal factors include items such as changes in claim reserving or settlement practices. The most significant external influences include, but are not limited to, changes in the legal, social, or regulatory environment surrounding the claims process. Uncontrollable factors such as general economic conditions also contribute to the variability.

While this analysis complies with applicable Actuarial Standards of Practice and Statements of Principles, users of this analysis should recognize that our projections involve estimates of future events, and are subject to economic and statistical variations from expected values. We have not anticipated any extraordinary changes to the legal, social, or economic environment that might affect the frequency or severity of claims. For these reasons, no assurance can be given that the emergence of actual losses will correspond to the projections in this analysis.

The Medicare, Medicaid and SCHIP Extension Act of 2007 (the Act) was enacted in part to ensure that Medicare does not pay medical benefits for beneficiaries whose medical treatments arise out of a liability or work-related accident. While Medicare has always been a secondary payer of these benefits, Medicare's rights to reimbursement have not been frequently exercised in the past. New reporting requirements under the Act enable Medicare to enforce its liens against primary payers and effectuate the reimbursement process. The ability of liability and workers compensation insurers to procure full and final medical settlements may be diminished under this Act. The passage of this Act increases the uncertainty in any estimate of unpaid losses and we have not attempted to quantify the impact of this Act on CVB's unpaid claims.

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Acknowledgement of Qualifications

The undersigned actuary is a Fellow of the Casualty Actuarial Society (FCAS), a Member of the American Academy of Actuaries (MAAA), and meets the Qualification Standards of the American Academy of Actuaries to provide the actuarial analysis contained herein.

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Glossary

Accident Period

The period in which the event giving rise to a claim occurred, regardless of when the claim is actually reported.

Accounting Date

The point in time at which the estimate of unpaid loss and ALAE is evaluated.

Actuarial Central Estimate

An estimate that represents an expected value over the range of reasonably possible outcomes. Such range of reasonably possible outcomes may not include all conceivable outcomes.

Allocated Loss Adjustment Expense (ALAE)

Expense costs associated with the handling and settling of an individual claim that can be directly attributed to the particular claim. Fees paid to outside defense attorneys and investigation firms are examples of this expense cost.

Case Reserves

The unpaid claim estimates established by adjusters on an individual claim basis.

Claim

A demand for payment under the coverage provided by a plan or contract. As used throughout this Glossary, it also includes suits, potentially compensable events, notifications, and unasserted claims.

Claim Frequency

The number of claims that occur over a period of time per unit of exposure.

Claim Reporting Pattern

The rate at which claims are assumed to be reported over time.

Claim Severity

The average cost per claim.

Confidence Level

The probability that the outcome of a random process will not exceed an associated estimate. For example, a 75% confidence level for an unpaid claim estimate of \$10 million would indicate

that there is a 75% probability that the actual claim payments will be less than or equal to \$10 million. The estimate is defined in the context of the risks modeled in our analysis and may not consider all factors contributing to variability of outcomes.

Credibility

A measure of the predictive value of a body of data.

Development

The change between valuation dates in the observed values of certain fundamental quantities that may be used in the unpaid claim estimation process.

For example, the number of reported claims associated with events occurring within a particular period will change from one valuation date to the next until all claims have been reported. In a similar fashion, the paid claim amounts for events occurring within a particular period will change from one valuation date to the next until all claims have been reported and closed. The change in the number of reported claims or the change in the paid claim amounts is referred to as development. The concept of development also applies to reported losses.

Discounted Unpaid Loss Estimate

The unpaid loss amount estimate presented on a basis that reflects the time value of money. In other words, how much would need to be invested as of the accounting date such that principal and interest would be equal to the expected future claim payments as they come due.

Estimated Ultimate Losses

The estimated cost of claims during a period. Ultimate reported losses represent the total of paid claim amounts, case reserves, and IBNR.

Event

The incident or activity that triggers potential for claim or allocated claim adjustment expense payment.

Exposure

A measure of the underlying potential for claim costs.

IBNR

The unpaid claim estimate for: (a) events that have occurred for which claims have not been reported as of the accounting date, (b) future development of the case reserves, (c) claims that have been reported but not yet recorded in the loss listing, and (d) claims that have been closed but that will be reopened.

Loss

The cost associated with a claim. The cost may or may not include loss adjustment expenses.

Loss Adjustment Expenses

The costs of administering, determining coverage for, settling, or defending claims. Loss adjustment expenses include allocated loss adjustment expenses and unallocated loss adjustment expenses.

Loss Cost

The loss amount per exposure unit.

Method

The systematic procedure for developing an actuarial estimate.

Model

A mathematical or empirical representation of a specified phenomenon.

Model Risk

The risk that the methods are not appropriate to the circumstances or the models are not representative of the specified phenomenon.

Paid Losses

The total aggregate dollar amount paid on all reported claims as of a certain date.

Parameter Risk

The risk that the assumptions or parameters used in the methods or models are not representative of future outcomes.

Payment Pattern

The rate at which claims are paid over time.

Process Risk

The uncertainty associated with the projection of future contingencies that are inherently variable, even when the parameters are known with certainty.

Range of Reasonable Estimates

A range of estimates that could be produced by appropriate actuarial methods or alternative sets of assumptions that the actuary judges to be reasonable; a range of reasonable estimates usually does not represent the range of all possible outcomes.

Recorded Claim Reserve or Liability

The provision for unpaid claim amounts shown in a published financial statement or in an internal statement of financial condition.

Report Date

The date on which the claim is first reported or recorded.

Reported Loss Amount

The total of paid claim amounts and case reserves.

Review Date

The date through which information is considered in the unpaid claim estimate analysis.

Risk Margin

An amount that may be added to the unpaid claim estimate to recognize the uncertainty in the estimate.

Salvage

Recoveries due to the sale of damaged or recovered property.

Subrogation

Recoveries from a third party responsible for the event for which a claim has already been paid.

Unallocated Loss Adjustment Expense (ULAE)

Loss adjustment expenses that cannot be attributed to an individual claim. Typically includes salaries, utilities, and rent apportioned to the claim adjustment expense function but not readily assignable to specific claims.

Undiscounted Unpaid Loss Estimate

The unpaid loss estimate presented on a basis that does not reflect the time value of money.

Unpaid Loss and ALAE Estimate

The estimate of the obligation for future payments resulting from losses and ALAE due to past events.

Valuation Date

The date through which transactions are included in the data used in the unpaid claim estimate analysis.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Summary of Unpaid Loss & ALAE as of June 30, 2016

Fiscal Years	Selected Ultimate Loss & ALAE as of 6/30/15 (1)	Total Unpaid Loss & ALAE as of 6/30/15 (2)	% Paid Loss & ALAE as of 6/30/15 (3)	% Paid Loss & ALAE as of 6/30/16 (4)	Expected Paid Between 6/30/15 and 6/30/16 (5)	Total Unpaid Loss & ALAE as of 6/30/16 (6)
prior to 7/1/85	na	27,770	99.5%	99.5%	2,541	25,229
7/1/85-6/30/86	136,354	21,247	99.5%	99.5%	1,944	19,302
7/1/86-6/30/87	190,894	24,302	99.4%	99.5%	2,223	22,078
7/1/87-6/30/88	1,131,437	31,272	99.1%	99.2%	2,713	28,559
7/1/88-6/30/89	29,612	22,077	98.5%	98.6%	1,495	20,583
7/1/89-6/30/90	0	0	97.3%	97.5%	0	0
7/1/90-6/30/91	1,934,394	154,409	96.6%	96.8%	8,362	146,047
7/1/91-6/30/92	1,847,884	56,132	96.4%	96.6%	3,037	53,095
7/1/92-6/30/93	2,233,888	0	95.5%	95.8%	0	0
7/1/93-6/30/94	2,794,882	80,593	95.3%	95.5%	4,136	76,456
7/1/94-6/30/95	2,695,902	167,948	95.0%	95.3%	8,608	159,340
7/1/95-6/30/96	1,896,549	18,687	94.8%	95.0%	956	17,731
7/1/96-6/30/97	2,242,028	21,679	94.5%	94.8%	1,108	20,571
7/1/97-6/30/98	1,950,673	15,808	94.2%	94.5%	796	15,013
7/1/98-6/30/99	2,146,793	41,212	93.9%	94.2%	2,107	39,105
7/1/99-6/30/00	2,466,296	63,465	93.5%	93.9%	3,668	59,797
7/1/00-6/30/01	3,883,465	181,002	93.1%	93.5%	11,852	169,150
7/1/01-6/30/02	3,852,207	236,212	92.5%	93.1%	16,203	220,008
7/1/02-6/30/03	3,205,156	114,264	91.9%	92.5%	9,386	104,879
7/1/03-6/30/04	6,667,887	388,167	91.0%	91.9%	37,888	350,279
7/1/04-6/30/05	8,156,167	670,219	90.0%	91.0%	64,529	605,690
7/1/05-6/30/06	7,267,964	1,041,685	87.6%	89.3%	143,662	898,022
7/1/06-6/30/07	5,872,087	960,151	84.0%	87.5%	209,454	750,697
7/1/07-6/30/08	8,232,887	1,789,006	79.3%	83.6%	367,154	1,421,852
7/1/08-6/30/09	7,051,063	1,346,498	74.4%	79.3%	257,525	1,088,973
7/1/09-6/30/10	5,450,158	1,356,949	69.0%	74.4%	239,971	1,116,977
7/1/10-6/30/11	7,868,317	2,278,267	63.4%	69.0%	346,393	1,931,874
7/1/11-6/30/12	6,702,846	1,694,074	57.2%	63.4%	246,151	1,447,923
7/1/12-6/30/13	9,510,821	3,074,509	47.7%	56.7%	528,420	2,546,089
7/1/13-6/30/14	11,827,623	4,886,620	38.5%	47.4%	707,445	4,179,175
7/1/14-6/30/15	10,406,753	8,008,932	15.7%	38.5%	2,165,539	5,843,393
7/1/15-6/30/16	11,187,072	0	0.0%	15.7%	1,759,516	9,427,556
Total	140,840,059	28,773,156			7,154,784	32,805,444
			Current (Short-term) Liability (excludes FY2016)**:		5,392,726	
			as a percent of 6/30/15 Liability:		18.7%	

Notes:

Column (1) is from Exhibit 1, Sheet 4, Column (9).

Column (2) is from Exhibit 1, Sheet 3, Column (6).

Columns (3) and (4) are based on Exhibit 6, Sheets 2, 4, 6, and industry data.

Column (5) equals Column (2) x [Column (4) - Column (3)] / [1.0 - Column (3)].

Column (6) equals Exhibit 1, Sheet 4, Column (9) - Exhibit 1, Sheet 4, Column (7) - Column (5).

** Current (Short-term) liability is calculated as the expected payments during the next 12 months for accidents occurring through the current evaluation date only.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Summary of Reported Loss & ALAE and IBNR as of June 30, 2016

Fiscal Years	Selected Ultimate Loss & ALAE as of 6/30/15 (1)	Total IBNR as of 6/30/15 (2)	% Reported Loss & ALAE as of 6/30/15 (3)	% Reported Loss & ALAE as of 6/30/16 (4)	Expected Rpt Between 6/30/15 and 6/30/16 (5)	Total IBNR as of 6/30/16 (6)
prior to 7/1/85	na	0	99.9%	99.9%	0	0
7/1/85-6/30/86	136,354	10,000	99.9%	99.9%	1,323	8,677
7/1/86-6/30/87	190,894	20,000	99.9%	99.9%	2,646	17,354
7/1/87-6/30/88	1,131,437	20,000	99.8%	99.8%	2,615	17,385
7/1/88-6/30/89	29,612	16,000	99.6%	99.7%	1,701	14,299
7/1/89-6/30/90	0	0	99.2%	99.3%	0	0
7/1/90-6/30/91	1,934,394	20,720	98.9%	99.0%	1,674	19,046
7/1/91-6/30/92	1,847,884	32,801	98.8%	98.9%	2,648	30,152
7/1/92-6/30/93	2,233,888	0	98.5%	98.6%	0	0
7/1/93-6/30/94	2,794,882	45,034	98.4%	98.5%	3,469	41,565
7/1/94-6/30/95	2,695,902	47,061	98.3%	98.4%	3,622	43,439
7/1/95-6/30/96	1,896,549	11,948	98.1%	98.3%	919	11,029
7/1/96-6/30/97	2,242,028	14,728	98.0%	98.1%	1,129	13,600
7/1/97-6/30/98	1,950,673	12,501	97.8%	98.0%	937	11,565
7/1/98-6/30/99	2,146,793	22,263	97.6%	97.8%	1,737	20,526
7/1/99-6/30/00	2,466,296	40,229	97.4%	97.6%	3,137	37,092
7/1/00-6/30/01	3,883,465	81,201	97.1%	97.4%	7,737	73,464
7/1/01-6/30/02	3,852,207	102,347	96.8%	97.1%	11,116	91,230
7/1/02-6/30/03	3,205,156	92,029	96.4%	96.8%	9,814	82,215
7/1/03-6/30/04	6,667,887	189,397	96.0%	96.4%	19,784	169,613
7/1/04-6/30/05	8,156,167	313,716	95.5%	96.0%	32,793	280,923
7/1/05-6/30/06	7,267,964	352,536	94.4%	95.0%	34,901	317,636
7/1/06-6/30/07	5,872,087	373,783	93.6%	94.3%	41,956	331,827
7/1/07-6/30/08	8,232,887	575,461	92.6%	93.4%	65,002	510,459
7/1/08-6/30/09	7,051,063	448,979	91.5%	92.6%	58,930	390,049
7/1/09-6/30/10	5,450,158	557,876	89.8%	91.5%	93,446	464,429
7/1/10-6/30/11	7,868,317	1,014,735	87.1%	89.8%	209,338	805,397
7/1/11-6/30/12	6,702,846	1,186,667	82.3%	87.1%	322,237	864,430
7/1/12-6/30/13	9,510,821	2,348,734	75.0%	82.0%	654,399	1,694,335
7/1/13-6/30/14	11,827,623	3,138,313	68.1%	74.6%	640,529	2,497,783
7/1/14-6/30/15	10,406,753	6,057,076	42.4%	68.1%	2,700,390	3,356,685
7/1/15-6/30/16	11,187,072	0	0.0%	42.4%	4,746,952	6,440,120
Total	140,840,059	17,146,134			9,676,883	18,656,323

Notes:

Column (1) is from Exhibit 1, Sheet 4, Column (9).

Column (2) is from Exhibit 1, Sheet 3, Column (5).

Columns (3) and (4) are based on Exhibit 6, Sheets 1, 3, 5, and industry data.

Column (5) equals Column (2) x [Column (4) - Column (3)] / [1.0 - Column (3)]

Column (6) equals Exhibit 1, Sheet 4, Column (9) - Exhibit 1, Sheet 4, Column (6) - Column (5).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Summary of Reserves as of June 30, 2015

Fiscal Years	Selected Ultimate Loss & ALAE (1)	Reported Loss & ALAE as of 6/30/15 (2)	Paid Loss & ALAE as of 6/30/15 (3)	Case Reserves as of 6/30/15 (4)	IBNR Reserves as of 6/30/15 (5)	Total Unpaid Loss & ALAE as of 6/30/15 (6)
prior to 7/1/85	na	na	na	27,770	na	27,770
7/1/85-6/30/86	136,354 *	126,354	115,107	11,247	10,000	21,247
7/1/86-6/30/87	190,894 *	170,894	166,592	4,302	20,000	24,302
7/1/87-6/30/88	1,131,437 *	1,111,437	1,100,165	11,272	20,000	31,272
7/1/88-6/30/89	29,612 *	13,612	7,535	6,077	16,000	22,077
7/1/89-6/30/90	0 *	0	0	0	0	0
7/1/90-6/30/91	1,934,394	1,913,674	1,779,984	133,690	20,720	154,409
7/1/91-6/30/92	1,847,884	1,815,083	1,791,752	23,331	32,801	56,132
7/1/92-6/30/93	2,233,888	2,233,888	2,233,888	0	0	0
7/1/93-6/30/94	2,794,882	2,749,848	2,714,289	35,559	45,034	80,593
7/1/94-6/30/95	2,695,902	2,648,840	2,527,954	120,887	47,061	167,948
7/1/95-6/30/96	1,896,549	1,884,601	1,877,862	6,740	11,948	18,687
7/1/96-6/30/97	2,242,028	2,227,300	2,220,350	6,950	14,728	21,679
7/1/97-6/30/98	1,950,673	1,938,172	1,934,865	3,307	12,501	15,808
7/1/98-6/30/99	2,146,793	2,124,530	2,105,581	18,949	22,263	41,212
7/1/99-6/30/00	2,466,296	2,426,067	2,402,831	23,236	40,229	63,465
7/1/00-6/30/01	3,883,465	3,802,264	3,702,464	99,800	81,201	181,002
7/1/01-6/30/02	3,852,207	3,749,860	3,615,996	133,865	102,347	236,212
7/1/02-6/30/03	3,205,156	3,113,127	3,090,891	22,236	92,029	114,264
7/1/03-6/30/04	6,667,887	6,478,490	6,279,720	198,770	189,397	388,167
7/1/04-6/30/05	8,156,167	7,842,451	7,485,948	356,503	313,716	670,219
7/1/05-6/30/06	7,267,964	6,915,428	6,226,280	689,148	352,536	1,041,685
7/1/06-6/30/07	5,872,087	5,498,304	4,911,936	586,369	373,783	960,151
7/1/07-6/30/08	8,232,887	7,657,426	6,443,881	1,213,545	575,461	1,789,006
7/1/08-6/30/09	7,051,063	6,602,084	5,704,565	897,519	448,979	1,346,498
7/1/09-6/30/10	5,450,158	4,892,282	4,093,209	799,073	557,876	1,356,949
7/1/10-6/30/11	7,868,317	6,853,582	5,590,050	1,263,532	1,014,735	2,278,267
7/1/11-6/30/12	6,702,846	5,516,179	5,008,772	507,407	1,186,667	1,694,074
7/1/12-6/30/13	9,510,821	7,162,088	6,436,312	725,775	2,348,734	3,074,509
7/1/13-6/30/14	11,827,623	8,689,311	6,941,003	1,748,307	3,138,313	4,886,620
7/1/14-6/30/15	10,406,753	4,349,678	2,397,822	1,951,856	6,057,076	8,008,932
Total	129,652,987	112,506,853	100,907,602	11,627,022	17,146,134	28,773,156

Notes:

Column (1) is from Exhibit 1, Sheet 4, Column (9).

Columns (2) and (3) provided by City of Virginia Beach.

Column (4) equals Column (2) - Column (3).

For periods prior to 7/1/1985, we are including case reserves for open claims only, as reported by City of Virginia Beach.

Column (5) equals Column (1) - Column (2).

Column (6) equals Column (4) + Column (5).

* For fiscal years 1986 through 1990, only open claims were provided and are estimated here

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 Workers Compensation
 Data as of June 30, 2015
 Loss & ALAE Limited to Retention

Estimate of Ultimate Loss & ALAE

Fiscal Years	Reported Loss & ALAE Development Method (1)	Paid Loss & ALAE Development Method (2)	Reported Bornhuetter-Ferguson Method (3)	Paid Bornhuetter-Ferguson Method (4)	Case Development Method (5)	Reported Loss & ALAE as of 6/30/15 (6)	Paid Loss & ALAE as of 6/30/15 (7)	Implied Open and IBNR Claim Counts (8a)	Implied Open and IBNR Claim Counts within Retention (8b)	Selected Ultimate Loss & ALAE (9)	Implied Loss & ALAE Cost (10)
7/1/85-6/30/86	na	na	na	na	129,257	126,354 *	115,107 *	1	1	136,354 *	na
7/1/86-6/30/87	na	na	na	na	172,071	170,894 *	166,592 *	1	1	190,894 *	na
7/1/87-6/30/88	na	na	na	na	1,114,708	1,111,437 *	1,100,165 *	5	1	1,131,437 *	na
7/1/88-6/30/89	na	na	na	na	15,708	13,612 *	7,535 *	2	2	29,612 *	na
7/1/89-6/30/90	na	na	na	na	0	0 *	0 *	0	0	0 *	na
7/1/90-6/30/91	1,934,394	1,843,315	na	na	1,974,233	1,913,674	1,779,984	3	2	1,934,394	na
7/1/91-6/30/92	1,836,482	1,859,286	na	na	1,826,102	1,815,083	1,791,752	1	1	1,847,884	na
7/1/92-6/30/93	2,267,611	2,338,257	na	na	2,233,888	2,233,888	2,233,888	0	0	2,233,888	na
7/1/93-6/30/94	2,794,882	2,848,302	na	na	2,768,368	2,749,848	2,714,289	2	2	2,794,882	na
7/1/94-6/30/95	2,695,902	2,659,862	na	na	2,714,509	2,648,840	2,527,954	2	2	2,695,902	na
7/1/95-6/30/96	1,920,929	1,981,425	na	na	1,888,423	1,884,601	1,877,862	1	1	1,896,549	na
7/1/96-6/30/97	2,273,871	2,349,780	na	na	2,231,414	2,227,300	2,220,350	2	1	2,242,028	na
7/1/97-6/30/98	1,982,053	2,053,998	na	na	1,940,213	1,938,172	1,934,865	1	1	1,950,673	na
7/1/98-6/30/99	2,176,801	2,242,666	na	na	2,136,791	2,124,530	2,105,581	1	1	2,146,793	na
7/1/99-6/30/00	2,490,941	2,569,531	2,513,157	2,619,773	2,441,651	2,426,067	2,402,831	3	3	2,466,296	12.60
7/1/00-6/30/01	3,914,964	3,978,669	3,908,063	3,957,605	3,872,966	3,802,264	3,702,464	4	4	3,883,465	18.75
7/1/01-6/30/02	3,875,002	3,907,217	3,881,170	3,919,051	3,852,207	3,749,860	3,615,996	2	2	3,852,207	17.44
7/1/02-6/30/03	3,229,885	3,364,068	3,275,834	3,456,390	3,130,968	3,113,127	3,090,891	3	3	3,205,156	13.60
7/1/03-6/30/04	6,750,999	6,900,698	6,676,457	6,721,050	6,640,183	6,478,490	6,279,720	8	5	6,667,887	26.84
7/1/04-6/30/05	8,212,660	8,313,793	8,083,825	8,019,133	8,137,336	7,842,451	7,485,948	12	9	8,156,167	31.08
7/1/05-6/30/06	7,321,837	7,106,347	7,255,890	6,985,897	7,475,193	6,915,428	6,226,280	11	10	7,267,964	26.17
7/1/06-6/30/07	5,872,087	5,850,553	5,927,560	5,993,819	5,883,979	5,498,304	4,911,936	17	17	5,872,087	20.08
7/1/07-6/30/08	8,269,620	8,122,691	8,207,047	7,978,362	8,334,669	7,657,426	6,443,881	15	14	8,232,887	26.86
7/1/08-6/30/09	7,217,079	7,662,877	7,273,001	7,716,661	7,051,063	6,602,084	5,704,565	12	11	7,051,063	22.50
7/1/09-6/30/10	5,450,158	5,936,165	5,723,476	6,614,268	5,285,322	4,892,282	4,093,209	16	16	5,450,158	17.50
7/1/10-6/30/11	7,868,317	8,818,916	7,934,037	8,657,451	7,540,661	6,853,582	5,590,050	15	15	7,868,317	25.33
7/1/11-6/30/12	6,702,846	8,762,304	7,067,256	8,761,833	5,873,596	5,516,179	5,008,772	22	22	6,702,846	21.40
7/1/12-6/30/13	9,545,661	13,500,530	9,475,982	11,285,111	7,824,585	7,162,088	6,436,312	40	40	9,510,821	30.20
7/1/13-6/30/14	12,760,108	18,021,823	11,827,623	12,989,455	10,574,696	8,689,311	6,941,003	82	81	11,827,623	36.96
7/1/14-6/30/15	10,250,821	15,245,442	10,406,753	11,264,647	8,557,362	4,349,678	2,397,822	256	256	10,406,753	31.51
Total	129,615,908	148,238,514	109,437,131	116,940,507	123,622,119	112,506,853	100,907,602	540	524	129,652,987	
7/1/15-6/30/16										11,187,072	33.0

Notes:
 Column (1) is from Exhibit 2, Sheet 1, Column (3).
 Column (2) is from Exhibit 2, Sheet 3, Column (3).
 Column (3) is from Exhibit 2, Sheet 5, Column (5).
 Column (4) is from Exhibit 2, Sheet 6, Column (5).
 Column (5) is from Exhibit 2, Sheet 7, Column (6).
 Columns (6) and (7) provided by City of Virginia Beach.
 Column (8a) is from Exhibit 4, Sheet 1, Column (6).
 Column (8b) based on Column (8a) and individual claim detail.
 Column (9) based on Columns (1) through (8b) and actuarial judgment, fiscal year 7/1/15-6/30/16 is from Exhibit 3, Sheet 1, Column (7).
 Column (10) equals Column (9) / Payroll (000's).
 * For fiscal years 1986 through 1990, only open claims were provided and are estimated here.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015
Loss & ALAE Limited to Retentior

Reported Loss & ALAE Development Method

<u>Fiscal Years</u>	<u>Retention</u>	<u>Reported Loss & ALAE as of 6/30/15 (1)</u>	<u>Age to Ultimate Factors (2)</u>	<u>Ultimate Loss & ALAE (1) x (2) (3)</u>	<u>Payroll (000's) (4)</u>	<u>Indicated Loss & ALAE Cost (3) / (4) (5)</u>
7/1/85-6/30/86	200,000	na	1.001	na	na	na
7/1/86-6/30/87	200,000	na	1.001	na	na	na
7/1/87-6/30/88	250,000	na	1.002	na	na	na
7/1/88-6/30/89	300,000	na	1.004	na	na	na
7/1/89-6/30/90	400,000	na	1.008	na	na	na
7/1/90-6/30/91	450,000	1,913,674	1.011	1,934,394	na	na
7/1/91-6/30/92	450,000	1,815,083	1.012	1,836,482	na	na
7/1/92-6/30/93	500,000	2,233,888	1.015	2,267,611	na	na
7/1/93-6/30/94	500,000	2,749,848	1.016	2,794,882	na	na
7/1/94-6/30/95	500,000	2,648,840	1.018	2,695,902	na	na
7/1/95-6/30/96	500,000	1,884,601	1.019	1,920,929	na	na
7/1/96-6/30/97	500,000	2,227,300	1.021	2,273,871	na	na
7/1/97-6/30/98	500,000	1,938,172	1.023	1,982,053	na	na
7/1/98-6/30/99	500,000	2,124,530	1.025	2,176,801	na	na
7/1/99-6/30/00	500,000	2,426,067	1.027	2,490,941	195,789	12.7
7/1/00-6/30/01	500,000	3,802,264	1.030	3,914,964	207,170	18.9
7/1/01-6/30/02	500,000	3,749,860	1.033	3,875,002	220,877	17.5
7/1/02-6/30/03	500,000	3,113,127	1.038	3,229,885	235,632	13.7
7/1/03-6/30/04	500,000	6,478,490	1.042	6,750,999	248,418	27.2
7/1/04-6/30/05	500,000	7,842,451	1.047	8,212,660	262,426	31.3
7/1/05-6/30/06	750,000	6,915,428	1.059	7,321,837	277,717	26.4
7/1/06-6/30/07	800,000 *	5,498,304	1.068	5,872,087	292,480	20.1
7/1/07-6/30/08	850,000	7,657,426	1.080	8,269,620	306,475	27.0
7/1/08-6/30/09	850,000	6,602,084	1.093	7,217,079	313,390	23.0
7/1/09-6/30/10	850,000	4,892,282	1.114	5,450,158	311,357	17.5
7/1/10-6/30/11	850,000	6,853,582	1.148	7,868,317	310,681	25.3
7/1/11-6/30/12	850,000	5,516,179	1.215	6,702,846	313,282	21.4
7/1/12-6/30/13	1,000,000	7,162,088	1.333	9,545,661	314,878	30.3
7/1/13-6/30/14	1,250,000	8,689,311	1.468	12,760,108	320,036	39.9
7/1/14-6/30/15	1,250,000	4,349,678	2.357	10,250,821	330,239	31.0
Total		111,084,557		129,615,908	4,460,846	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheets 1, 3, and 5, and industry data

* Retention changes from \$750,000 to \$850,000 at 3/1/2007.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015

Reported Loss & ALAE Development Method

Section I - Reported Loss & ALAE Limited to \$250,000

Fiscal Years	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Payroll (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/99-6/30/00	2,426,067	1.011	2,453,853	195,789	12.5
7/1/00-6/30/01	3,802,264	1.013	3,853,345	207,170	18.6
7/1/01-6/30/02	3,632,552	1.016	3,689,542	220,877	16.7
7/1/02-6/30/03	3,077,799	1.018	3,133,871	235,632	13.3
7/1/03-6/30/04	5,103,117	1.021	5,210,506	248,418	21.0
7/1/04-6/30/05	5,856,405	1.024	5,998,289	262,426	22.9
7/1/05-6/30/06	4,792,293	1.028	4,926,286	277,717	17.7
7/1/06-6/30/07	4,888,357	1.033	5,047,359	292,480	17.3
7/1/07-6/30/08	4,707,073	1.039	4,892,171	306,475	16.0
7/1/08-6/30/09	4,542,747	1.050	4,769,202	313,390	15.2
7/1/09-6/30/10	4,312,944	1.068	4,604,891	311,357	14.8
7/1/10-6/30/11	5,161,249	1.091	5,633,277	310,681	18.1
7/1/11-6/30/12	4,602,495	1.121	5,159,248	313,282	16.5
7/1/12-6/30/13	6,577,777	1.174	7,719,193	314,878	24.5
7/1/13-6/30/14	7,692,473	1.284	9,878,844	320,036	30.9
7/1/14-6/30/15	4,349,678	1.914	8,323,950	330,239	25.2
Total	75,525,290		85,293,827	4,460,846	

Section II - Reported Loss & ALAE Limited to \$500,000

Fiscal Years	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Payroll (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/99-6/30/00	2,426,067	1.027	2,490,941	195,789	12.7
7/1/00-6/30/01	3,802,264	1.030	3,914,964	207,170	18.9
7/1/01-6/30/02	3,749,860	1.033	3,875,002	220,877	17.5
7/1/02-6/30/03	3,113,127	1.038	3,229,885	235,632	13.7
7/1/03-6/30/04	6,478,490	1.042	6,750,999	248,418	27.2
7/1/04-6/30/05	7,842,451	1.047	8,212,660	262,426	31.3
7/1/05-6/30/06	6,521,849	1.053	6,868,741	277,717	24.7
7/1/06-6/30/07	5,430,335	1.061	5,759,723	292,480	19.7
7/1/07-6/30/08	6,695,787	1.070	7,164,631	306,475	23.4
7/1/08-6/30/09	5,767,189	1.081	6,236,282	313,390	19.9
7/1/09-6/30/10	4,892,282	1.100	5,383,250	311,357	17.3
7/1/10-6/30/11	6,483,055	1.133	7,347,298	310,681	23.6
7/1/11-6/30/12	5,227,709	1.178	6,159,247	313,282	19.7
7/1/12-6/30/13	6,856,327	1.278	8,764,835	314,878	27.8
7/1/13-6/30/14	8,289,311	1.404	11,635,178	320,036	36.4
7/1/14-6/30/15	4,349,678	2.174	9,457,245	330,239	28.6
Total	87,925,781		103,250,880	4,460,846	

Section III - Reported Loss & ALAE Limited to \$750,000

Fiscal Years	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Payroll (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/99-6/30/00	2,426,067	1.031	2,501,878	195,789	12.8
7/1/00-6/30/01	3,802,264	1.035	3,933,524	207,170	19.0
7/1/01-6/30/02	3,749,860	1.038	3,893,935	220,877	17.6
7/1/02-6/30/03	3,113,127	1.043	3,246,085	235,632	13.8
7/1/03-6/30/04	6,581,651	1.047	6,893,646	248,418	27.8
7/1/04-6/30/05	8,236,061	1.053	8,669,641	262,426	33.0
7/1/05-6/30/06	6,915,428	1.059	7,321,837	277,717	26.4
7/1/06-6/30/07	5,498,304	1.067	5,865,762	292,480	20.1
7/1/07-6/30/08	7,509,801	1.076	8,083,459	306,475	26.4
7/1/08-6/30/09	6,429,173	1.089	7,003,701	313,390	22.3
7/1/09-6/30/10	4,892,282	1.110	5,429,276	311,357	17.4
7/1/10-6/30/11	6,853,582	1.143	7,833,380	310,681	25.2
7/1/11-6/30/12	5,505,041	1.208	6,651,831	313,282	21.2
7/1/12-6/30/13	7,106,327	1.318	9,365,442	314,878	29.7
7/1/13-6/30/14	8,589,311	1.446	12,423,577	320,036	38.8
7/1/14-6/30/15	4,349,678	2.309	10,042,957	330,239	30.4
Total	91,557,957		109,159,929	4,460,846	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.
The age to ultimate factors in Column (2) are based on Exhibit 6, Sheets 1, 3, and 5.

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 Workers Compensation
 Data as of June 30, 2015
 Loss & ALAE Limited to Retentior

Paid Loss & ALAE Development Method

Fiscal Years	Retention	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Ultimate Loss & ALAE (1) x (2) (3)	Payroll (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/85-6/30/86	200,000	na	1.005	na	na	na
7/1/86-6/30/87	200,000	na	1.006	na	na	na
7/1/87-6/30/88	250,000	na	1.009	na	na	na
7/1/88-6/30/89	300,000	na	1.015	na	na	na
7/1/89-6/30/90	400,000	na	1.028	na	na	na
7/1/90-6/30/91	450,000	1,779,984	1.036	1,843,315	na	na
7/1/91-6/30/92	450,000	1,791,752	1.038	1,859,286	na	na
7/1/92-6/30/93	500,000	2,233,888	1.047	2,338,257	na	na
7/1/93-6/30/94	500,000	2,714,289	1.049	2,848,302	na	na
7/1/94-6/30/95	500,000	2,527,954	1.052	2,659,862	na	na
7/1/95-6/30/96	500,000	1,877,862	1.055	1,981,425	na	na
7/1/96-6/30/97	500,000	2,220,350	1.058	2,349,780	na	na
7/1/97-6/30/98	500,000	1,934,865	1.062	2,053,998	na	na
7/1/98-6/30/99	500,000	2,105,581	1.065	2,242,666	na	na
7/1/99-6/30/00	500,000	2,402,831	1.069	2,569,531	195,789	13.1
7/1/00-6/30/01	500,000	3,702,464	1.075	3,978,669	207,170	19.2
7/1/01-6/30/02	500,000	3,615,996	1.081	3,907,217	220,877	17.7
7/1/02-6/30/03	500,000	3,090,891	1.088	3,364,068	235,632	14.3
7/1/03-6/30/04	500,000	6,279,720	1.099	6,900,698	248,418	27.8
7/1/04-6/30/05	500,000	7,485,948	1.111	8,313,793	262,426	31.7
7/1/05-6/30/06	750,000	6,226,280	1.141	7,106,347	277,717	25.6
7/1/06-6/30/07	800,000 *	4,911,936	1.191	5,850,553	292,480	20.0
7/1/07-6/30/08	850,000	6,443,881	1.261	8,122,691	306,475	26.5
7/1/08-6/30/09	850,000	5,704,565	1.343	7,662,877	313,390	24.5
7/1/09-6/30/10	850,000	4,093,209	1.450	5,936,165	311,357	19.1
7/1/10-6/30/11	850,000	5,590,050	1.578	8,818,916	310,681	28.4
7/1/11-6/30/12	850,000	5,008,772	1.749	8,762,304	313,282	28.0
7/1/12-6/30/13	1,000,000	6,436,312	2.098	13,500,530	314,878	42.9
7/1/13-6/30/14	1,250,000	6,941,003	2.596	18,021,823	320,036	56.3
7/1/14-6/30/15	1,250,000	2,397,822	6.358	15,245,442	330,239	46.2
Total		99,518,203		148,238,514	4,460,846	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheets 2, 4, and 6, and industry data

* Retention changes from \$750,000 to \$850,000 at 3/1/2007.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015

Paid Loss & ALAE Development Method

Section I - Paid Loss & ALAE Limited to \$250,000

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Payroll (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/99-6/30/00	2,402,831	1.029	2,472,936	195,789	12.6
7/1/00-6/30/01	3,702,464	1.033	3,825,800	207,170	18.5
7/1/01-6/30/02	3,584,472	1.038	3,720,649	220,877	16.8
7/1/02-6/30/03	3,055,563	1.044	3,189,466	235,632	13.5
7/1/03-6/30/04	5,041,966	1.051	5,301,457	248,418	21.3
7/1/04-6/30/05	5,813,460	1.060	6,163,181	262,426	23.5
7/1/05-6/30/06	4,790,968	1.071	5,132,131	277,717	18.5
7/1/06-6/30/07	4,586,298	1.087	4,984,449	292,480	17.0
7/1/07-6/30/08	4,456,483	1.115	4,968,390	306,475	16.2
7/1/08-6/30/09	4,264,710	1.152	4,911,513	313,390	15.7
7/1/09-6/30/10	4,001,572	1.198	4,791,926	311,357	15.4
7/1/10-6/30/11	4,971,339	1.260	6,261,957	310,681	20.2
7/1/11-6/30/12	4,286,243	1.362	5,839,732	313,282	18.6
7/1/12-6/30/13	5,880,551	1.550	9,114,225	314,878	28.9
7/1/13-6/30/14	6,341,154	1.911	12,115,311	320,036	37.9
7/1/14-6/30/15	2,397,822	4.324	10,367,666	330,239	31.4
Total	69,577,897		93,160,788	4,460,846	

Section II - Paid Loss & ALAE Limited to \$500,000

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Payroll (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/99-6/30/00	2,402,831	1.069	2,569,531	195,789	13.1
7/1/00-6/30/01	3,702,464	1.075	3,978,669	207,170	19.2
7/1/01-6/30/02	3,615,996	1.081	3,907,217	220,877	17.7
7/1/02-6/30/03	3,090,891	1.088	3,364,068	235,632	14.3
7/1/03-6/30/04	6,279,720	1.099	6,900,698	248,418	27.8
7/1/04-6/30/05	7,485,948	1.111	8,313,793	262,426	31.7
7/1/05-6/30/06	6,086,738	1.131	6,886,195	277,717	24.8
7/1/06-6/30/07	4,911,936	1.176	5,775,080	292,480	19.7
7/1/07-6/30/08	5,803,669	1.233	7,156,807	306,475	23.4
7/1/08-6/30/09	5,269,166	1.306	6,879,452	313,390	22.0
7/1/09-6/30/10	4,093,209	1.393	5,702,043	311,357	18.3
7/1/10-6/30/11	5,590,050	1.493	8,347,800	310,681	26.9
7/1/11-6/30/12	4,762,556	1.655	7,883,622	313,282	25.2
7/1/12-6/30/13	6,130,551	1.945	11,925,279	314,878	37.9
7/1/13-6/30/14	6,591,154	2.401	15,827,447	320,036	49.5
7/1/14-6/30/15	2,397,822	5.648	13,542,979	330,239	41.0
Total	78,214,701		118,960,678	4,460,846	

Section III - Paid Loss & ALAE Limited to \$750,000

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Payroll (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/99-6/30/00	2,402,831	1.076	2,586,456	195,789	13.2
7/1/00-6/30/01	3,702,464	1.082	4,005,489	207,170	19.3
7/1/01-6/30/02	3,615,996	1.088	3,934,249	220,877	17.8
7/1/02-6/30/03	3,090,891	1.096	3,388,323	235,632	14.4
7/1/03-6/30/04	6,284,376	1.107	6,958,460	248,418	28.0
7/1/04-6/30/05	7,764,984	1.120	8,693,083	262,426	33.1
7/1/05-6/30/06	6,226,280	1.141	7,106,347	277,717	25.6
7/1/06-6/30/07	4,911,936	1.188	5,837,138	292,480	20.0
7/1/07-6/30/08	6,343,881	1.250	7,928,111	306,475	25.9
7/1/08-6/30/09	5,676,817	1.330	7,547,767	313,390	24.1
7/1/09-6/30/10	4,093,209	1.433	5,866,896	311,357	18.8
7/1/10-6/30/11	5,590,050	1.558	8,708,332	310,681	28.0
7/1/11-6/30/12	5,008,772	1.727	8,649,958	313,282	27.6
7/1/12-6/30/13	6,380,551	2.052	13,093,863	314,878	41.6
7/1/13-6/30/14	6,841,154	2.535	17,342,112	320,036	54.2
7/1/14-6/30/15	2,397,822	6.165	14,783,006	330,239	44.8
Total	80,332,014		126,429,590	4,460,846	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.
The age to ultimate factors in Column (2) are based on Exhibit 6, Sheets 2, 4, and 6.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015
Loss & ALAE Limited to Retentior

Reported Bornhuetter-Ferguson Method

Fiscal Years	Expected Estimate of Ultimate Loss & ALAE (1)	Age to Ultimate Factors (2)	Unreported Loss & ALAE (3)	Reported Loss & ALAE as of 6/30/15 (4)	Estimated Ultimate Loss & ALAE (3) + (4) (5)	Indicated Loss & ALAE Cost (6)
7/1/99-6/30/00	3,343,958	1.027	87,090	2,426,067	2,513,157	12.8
7/1/00-6/30/01	3,675,253	1.030	105,799	3,802,264	3,908,063	18.9
7/1/01-6/30/02	4,066,001	1.033	131,309	3,749,860	3,881,170	17.6
7/1/02-6/30/03	4,500,981	1.038	162,707	3,113,127	3,275,834	13.9
7/1/03-6/30/04	4,904,332	1.042	197,967	6,478,490	6,676,457	26.9
7/1/04-6/30/05	5,354,611	1.047	241,374	7,842,451	8,083,825	30.8
7/1/05-6/30/06	6,133,739	1.059	340,462	6,915,428	7,255,890	26.1
7/1/06-6/30/07	6,743,558	1.068	429,256	5,498,304	5,927,560	20.3
7/1/07-6/30/08	7,424,377	1.080	549,621	7,657,426	8,207,047	26.8
7/1/08-6/30/09	7,873,333	1.093	670,918	6,602,084	7,273,001	23.2
7/1/09-6/30/10	8,120,336	1.114	831,194	4,892,282	5,723,476	18.4
7/1/10-6/30/11	8,377,911	1.148	1,080,455	6,853,582	7,934,037	25.5
7/1/11-6/30/12	8,761,203	1.215	1,551,078	5,516,179	7,067,256	22.6
7/1/12-6/30/13	9,266,611	1.333	2,313,894	7,162,088	9,475,982	30.1
7/1/13-6/30/14	9,837,190	1.468	3,138,313	8,689,311	11,827,623	37.0
7/1/14-6/30/15	10,521,690	2.357	6,057,076	4,349,678	10,406,753	31.5
Total	108,905,082		17,888,510	91,548,621	109,437,131	

Notes:

Column (1) is from Exhibit 3, Sheet 1, Column (9)

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheets 1, 3, and 5, and industry data

Column (3) equals Column (1) x [1.0 - 1.0 / Column (2)]

Column (4) provided by City of Virginia Beach.

Column (6) equals Column (5) / Payroll (000's)

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015
Loss & ALAE Limited to Retentior

Paid Bornhuetter-Ferguson Method

Fiscal Years	Expected Estimate of Ultimate Loss & ALAE (1)	Age to Ultimate Factors (2)	Unpaid Loss & ALAE (3)	Paid Loss & ALAE as of 6/30/15 (4)	Estimated Ultimate Loss & ALAE (3) + (4) (5)	Indicated Loss & ALAE Cost (6)
7/1/99-6/30/00	3,343,958	1.069	216,942	2,402,831	2,619,773	13.4
7/1/00-6/30/01	3,675,253	1.075	255,141	3,702,464	3,957,605	19.1
7/1/01-6/30/02	4,066,001	1.081	303,056	3,615,996	3,919,051	17.7
7/1/02-6/30/03	4,500,981	1.088	365,499	3,090,891	3,456,390	14.7
7/1/03-6/30/04	4,904,332	1.099	441,330	6,279,720	6,721,050	27.1
7/1/04-6/30/05	5,354,611	1.111	533,185	7,485,948	8,019,133	30.6
7/1/05-6/30/06	6,133,739	1.141	759,617	6,226,280	6,985,897	25.2
7/1/06-6/30/07	6,743,558	1.191	1,081,884	4,911,936	5,993,819	20.5
7/1/07-6/30/08	7,424,377	1.261	1,534,481	6,443,881	7,978,362	26.0
7/1/08-6/30/09	7,873,333	1.343	2,012,096	5,704,565	7,716,661	24.6
7/1/09-6/30/10	8,120,336	1.450	2,521,059	4,093,209	6,614,268	21.2
7/1/10-6/30/11	8,377,911	1.578	3,067,401	5,590,050	8,657,451	27.9
7/1/11-6/30/12	8,761,203	1.749	3,753,061	5,008,772	8,761,833	28.0
7/1/12-6/30/13	9,266,611	2.098	4,848,799	6,436,312	11,285,111	35.8
7/1/13-6/30/14	9,837,190	2.596	6,048,452	6,941,003	12,989,455	40.6
7/1/14-6/30/15	10,521,690	6.358	8,866,826	2,397,822	11,264,647	34.1
Total	108,905,082		36,608,828	80,331,679	116,940,507	

Notes:

Column (1) is from Exhibit 3, Sheet 1, Column (9)
The age to ultimate factors in Column (2) are based on Exhibit 6, Sheets 2, 4, and 6, and industry data
Column (3) equals Column (1) x [1.0 - 1.0 / Column (2)]
Column (4) provided by City of Virginia Beach.
Column (6) equals Column (5) / Payroll (000's)

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Case Development Method

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Case Outstanding Loss & ALAE as of 6/30/15 (2)	Percent of Ultimate Loss & ALAE Reported (3)	Percent of Ultimate Loss & ALAE Paid (4)	Incurred But Not Reported Loss & ALAE (5)	Estimated Ultimate Loss & ALAE (6)	Indicated Loss & ALAE Cost (7)	
7/1/85-6/30/86	*	115,107	11,247	99.9%	99.5%	2,903	129,257	na
7/1/86-6/30/87	*	166,592	4,302	99.9%	99.4%	1,177	172,071	na
7/1/87-6/30/88	*	1,100,165	11,272	99.8%	99.1%	3,271	1,114,708	na
7/1/88-6/30/89	*	7,535	6,077	99.6%	98.5%	2,096	15,708	na
7/1/89-6/30/90	*	0	0	99.2%	97.3%	0	0	na
7/1/90-6/30/91		1,779,984	133,690	98.9%	96.6%	60,559	1,974,233	na
7/1/91-6/30/92		1,791,752	23,331	98.8%	96.4%	11,019	1,826,102	na
7/1/92-6/30/93		2,233,888	0	98.5%	95.5%	0	2,233,888	na
7/1/93-6/30/94		2,714,289	35,559	98.4%	95.3%	18,520	2,768,368	na
7/1/94-6/30/95		2,527,954	120,887	98.3%	95.0%	65,668	2,714,509	na
7/1/95-6/30/96		1,877,862	6,740	98.1%	94.8%	3,821	1,888,423	na
7/1/96-6/30/97		2,220,350	6,950	98.0%	94.5%	4,114	2,231,414	na
7/1/97-6/30/98		1,934,865	3,307	97.8%	94.2%	2,041	1,940,213	na
7/1/98-6/30/99		2,105,581	18,949	97.6%	93.9%	12,260	2,136,791	na
7/1/99-6/30/00		2,402,831	23,236	97.4%	93.5%	15,584	2,441,651	12.5
7/1/00-6/30/01		3,702,464	99,800	97.1%	93.1%	70,702	3,872,966	18.7
7/1/01-6/30/02		3,615,996	133,865	96.8%	92.5%	102,347	3,852,207	17.4
7/1/02-6/30/03		3,090,891	22,236	96.4%	91.9%	17,841	3,130,968	13.3
7/1/03-6/30/04		6,279,720	198,770	96.0%	91.0%	161,692	6,640,183	26.7
7/1/04-6/30/05		7,485,948	356,503	95.5%	90.0%	294,885	8,137,336	31.0
7/1/05-6/30/06		6,226,280	689,148	94.4%	87.6%	559,765	7,475,193	26.9
7/1/06-6/30/07		4,911,936	586,369	93.6%	84.0%	385,674	5,883,979	20.1
7/1/07-6/30/08		6,443,881	1,213,545	92.6%	79.3%	677,243	8,334,669	27.2
7/1/08-6/30/09		5,704,565	897,519	91.5%	74.4%	448,979	7,051,063	22.5
7/1/09-6/30/10		4,093,209	799,073	89.8%	69.0%	393,040	5,285,322	17.0
7/1/10-6/30/11		5,590,050	1,263,532	87.1%	63.4%	687,079	7,540,661	24.3
7/1/11-6/30/12		5,008,772	507,407	82.3%	57.2%	357,417	5,873,596	18.7
7/1/12-6/30/13		6,436,312	725,775	75.0%	47.7%	662,497	7,824,585	24.8
7/1/13-6/30/14		6,941,003	1,748,307	68.1%	38.5%	1,885,386	10,574,696	33.0
7/1/14-6/30/15		2,397,822	1,951,856	42.4%	15.7%	4,207,684	8,557,362	25.9
Total		100,907,602	11,599,252			11,115,266	123,622,119	

Notes:

- Columns (1) and (2) provided by City of Virginia Beach.
- The factors in Column (3) equal 1.0 / Exhibit 2, Sheet 1, Column (2).
- The factors in Column (4) equal 1.0 / Exhibit 2, Sheet 3, Column (2).
- Column (5) equals Column (2) x [1.0 - Column (3)] / [Column (3) - Column (4)].
- Column (6) equals Column (1) + Column (2) + Column (5).
- Column (7) equals Column (6) / Payroll (000's).
- * Fiscal years 1986 through 1990 only include open claims.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015

Loss Cost Method Summary

Fiscal Years	Smoothed Selected Loss & ALAE Cost @ \$250,000 (1)	Smoothed Selected Loss & ALAE Cost @ \$500,000 (2)	Smoothed Selected Loss & ALAE Cost @ \$750,000 (3)	Smoothed Selected Loss & ALAE Cost @ \$850,000 (4)	Smoothed Selected Loss & ALAE Cost @ \$1,000,000 (5)	Smoothed Selected Loss & ALAE Cost @ \$1,250,000 (6)	Smoothed Retained Loss & ALAE Cost (7)	Payroll (000)s (8)	Estimated Ultimate Loss & ALAE (9)
7/1/99-6/30/00	14.9	17.1	17.6	17.9	18.1	18.2	17.1	195,789	3,343,958
7/1/00-6/30/01	15.5	17.7	18.4	18.6	18.8	18.9	17.7	207,170	3,675,253
7/1/01-6/30/02	16.0	18.4	19.1	19.4	19.6	19.7	18.4	220,877	4,066,001
7/1/02-6/30/03	16.6	19.1	19.9	20.2	20.4	20.5	19.1	235,632	4,500,981
7/1/03-6/30/04	17.1	19.7	20.6	20.9	21.1	21.2	19.7	248,418	4,904,332
7/1/04-6/30/05	17.6	20.4	21.3	21.7	21.9	22.0	20.4	262,426	5,354,611
7/1/05-6/30/06	18.2	21.1	22.1	22.5	22.7	22.9	22.1	277,717	6,133,739
7/1/06-6/30/07	18.8	21.9	22.9	23.3	23.6	23.7	23.1	292,480	6,743,558
7/1/07-6/30/08	19.4	22.7	23.8	24.2	24.5	24.7	24.2	306,475	7,424,377
7/1/08-6/30/09	20.1	23.4	24.6	25.1	25.4	25.6	25.1	313,390	7,873,333
7/1/09-6/30/10	20.7	24.3	25.6	26.1	26.4	26.6	26.1	311,357	8,120,336
7/1/10-6/30/11	21.3	25.0	26.4	27.0	27.3	27.5	27.0	310,681	8,377,911
7/1/11-6/30/12	22.0	25.9	27.4	28.0	28.3	28.5	28.0	313,282	8,761,203
7/1/12-6/30/13	22.7	26.8	28.4	29.0	29.4	29.6	29.4	314,878	9,266,611
7/1/13-6/30/14	23.5	27.8	29.5	30.1	30.5	30.7	30.7	320,036	9,837,190
7/1/14-6/30/15	24.2	28.7	30.5	31.2	31.6	31.9	31.9	330,239	10,521,690
Total								4,460,846	108,905,082
7/1/15-6/30/16 at retention \$1,250,000							33.0	339,086	11,187,072
SELECTED LOSS & ALAE COST AT THE 7/1/14-6/30/15 LEVEL									
Selected loss cost - Limited to \$250,000 (from Exhibit 3, Sheet 2)								24.2	
Selected loss cost - Limited to \$500,000 (from Exhibit 3, Sheet 3)								28.7	
Indicated loss cost - Limited to \$750,000 (from Exhibit 3, Sheet 4)								30.5	
Increased limits factor from \$500K to \$750K *								1.082	
Indicated loss cost - Limited to \$750,000 using industry \$500K to \$750K ILF								31.1	
Selected loss cost - Limited to \$750,000								30.5	
Increased limits factor from \$750K to \$850K *								1.022	
Selected loss cost - Limited to \$850,000								31.2	
Increased limits factor from \$850K to \$1M *								1.014	
Selected loss cost - Limited to \$1,000,000								31.6	
Increased limits factor from \$1M to \$1.25M *								1.007	
Selected loss cost - Limited to \$1,250,000								31.9	

Notes:

Columns (1), (2), (3) and (4) are the selected fiscal year 7/1/14-6/30/15 loss cost, detrended at an annual rate of 3.00%, 3.25%, 3.45% and 3.50% at retention \$250K, \$500K, \$750K, and \$850K, respectively.
 Column (5) is the selected fiscal year loss cost at the respective historical retention.
 Column (6) provided by City of Virginia Beach.
 Column (7) equals Column (5) x Column (6).
 * Increased limits factors based on NCCI VA Industry factors for Hazard Group E and CVB's historical large losses.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015

Loss Cost Method, Loss & ALAE Limited to \$250,000

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Payroll (000's) (3)	Adjustment to FY2015 Exposure (4)	Adjusted Payroll (000's) (3) x (4) (5)	Indicated Loss Cost (6)	Trended to FY2015 Loss Cost (7)
7/1/99-6/30/00	2,447,687	1.040	195,789	1.000	195,789	13.0	20.3
7/1/00-6/30/01	3,867,308	1.033	207,170	1.000	207,170	19.3	29.2
7/1/01-6/30/02	3,667,660	1.028	220,877	1.000	220,877	17.1	25.1
7/1/02-6/30/03	3,123,982	1.023	235,632	1.000	235,632	13.6	19.3
7/1/03-6/30/04	5,163,321	1.022	248,418	1.000	248,418	21.2	29.4
7/1/04-6/30/05	5,914,901	1.021	262,426	1.000	262,426	23.0	30.9
7/1/05-6/30/06	4,792,293	1.018	277,717	1.000	277,717	17.6	22.9
7/1/06-6/30/07	5,047,359	1.015	292,480	1.000	292,480	17.5	22.2
7/1/07-6/30/08	4,882,253	1.012	306,475	1.000	306,475	16.1	19.8
7/1/08-6/30/09	4,699,524	1.010	313,390	1.000	313,390	15.1	18.1
7/1/09-6/30/10	4,604,891	1.007	311,357	1.000	311,357	14.9	17.3
7/1/10-6/30/11	5,633,277	1.008	310,681	1.000	310,681	18.3	20.6
7/1/11-6/30/12	5,159,248	1.006	313,282	1.000	313,282	16.6	18.1
7/1/12-6/30/13	7,719,193	1.003	314,878	1.000	314,878	24.6	26.1
7/1/13-6/30/14	9,878,844	1.001	320,036	1.000	320,036	30.9	31.8
7/1/14-6/30/15	8,323,950	1.000	330,239	1.000	330,239	25.2	25.2
Total	84,925,690		4,460,846		4,460,846		

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14:	23.4
Average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14 excluding extremes:	23.2
Weighted average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14:	23.2
Weighted average of fiscal years 7/1/03-6/30/04 through 7/1/13-6/30/14:	23.2
Weighted average of fiscal years 7/1/10-6/30/11 through 7/1/13-6/30/14:	24.2
Selected 7/1/14-6/30/15 loss & ALAE cost:	24.2

Notes:

Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgment

Column (2) based on the latest published NCCI Statistical Bulletin

Column (3) provided by City of Virginia Beach.

Column (4) not used in this study.

Column (6) equals Column (1) x Column (2) / Column (5)

Column (7) equals Column (6) x the selected loss cost trend of 3.00%

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 Workers Compensation
 Data as of June 30, 2015

Loss Cost Method, Loss & ALAE Limited to \$500,000

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Payroll (000's) (3)	Adjustment to FY2015 Exposure (4)	Adjusted Payroll (000's) (3) x (4) (5)	Indicated Loss Cost (6)	Trended to FY2015 Loss Cost (7)
7/1/99-6/30/00	2,466,296	1.040	195,789	1.000	195,789	13.1	21.2
7/1/00-6/30/01	3,883,465	1.033	207,170	1.000	207,170	19.4	30.3
7/1/01-6/30/02	3,852,207	1.028	220,877	1.000	220,877	17.9	27.2
7/1/02-6/30/03	3,205,156	1.023	235,632	1.000	235,632	13.9	20.4
7/1/03-6/30/04	6,667,887	1.022	248,418	1.000	248,418	27.4	39.0
7/1/04-6/30/05	8,156,167	1.021	262,426	1.000	262,426	31.7	43.7
7/1/05-6/30/06	6,873,105	1.018	277,717	1.000	277,717	25.2	33.6
7/1/06-6/30/07	5,759,723	1.015	292,480	1.000	292,480	20.0	25.8
7/1/07-6/30/08	7,162,675	1.012	306,475	1.000	306,475	23.7	29.6
7/1/08-6/30/09	6,003,014	1.010	313,390	1.000	313,390	19.3	23.4
7/1/09-6/30/10	5,383,250	1.007	311,357	1.000	311,357	17.4	20.4
7/1/10-6/30/11	7,347,298	1.008	310,681	1.000	310,681	23.8	27.1
7/1/11-6/30/12	6,159,247	1.006	313,282	1.000	313,282	19.8	21.8
7/1/12-6/30/13	8,764,835	1.003	314,878	1.000	314,878	27.9	29.8
7/1/13-6/30/14	11,134,506	1.001	320,036	1.000	320,036	34.8	36.0
7/1/14-6/30/15	9,457,245	1.000	330,239	1.000	330,239	28.6	28.6
Total	102,276,076		4,460,846		4,460,846		

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14:	28.6
Average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14 excluding extremes:	28.1
Weighted average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14:	28.6
Weighted average of fiscal years 7/1/03-6/30/04 through 7/1/13-6/30/14:	29.6
Weighted average of fiscal years 7/1/10-6/30/11 through 7/1/13-6/30/14:	28.7
Selected 7/1/14-6/30/15 loss & ALAE cost:	28.7

Notes:

Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgment

Column (2) based on the latest published NCCI Statistical Bulletin

Column (3) provided by City of Virginia Beach.

Column (4) not used in this study.

Column (6) equals Column (1) x Column (2) / Column (5)

Column (7) equals Column (6) x the selected loss cost trend of 3.25%

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 Workers Compensation
 Data as of June 30, 2015

Loss Cost Method, Loss & ALAE Limited to \$750,000

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Payroll (000's) (3)	Adjustment to FY2015 Exposure (4)	Adjusted Payroll (000's) (3) x (4) (5)	Indicated Loss Cost (6)	Trended to FY2015 Loss Cost (7)
7/1/99-6/30/00	2,472,623	1.040	195,789	1.000	195,789	13.1	21.8
7/1/00-6/30/01	3,894,151	1.033	207,170	1.000	207,170	19.4	31.2
7/1/01-6/30/02	3,862,701	1.028	220,877	1.000	220,877	18.0	27.9
7/1/02-6/30/03	3,217,708	1.023	235,632	1.000	235,632	14.0	21.0
7/1/03-6/30/04	6,855,150	1.022	248,418	1.000	248,418	28.2	41.0
7/1/04-6/30/05	8,655,802	1.021	262,426	1.000	262,426	33.7	47.3
7/1/05-6/30/06	7,267,964	1.018	277,717	1.000	277,717	26.6	36.2
7/1/06-6/30/07	5,865,762	1.015	292,480	1.000	292,480	20.4	26.7
7/1/07-6/30/08	8,044,622	1.012	306,475	1.000	306,475	26.6	33.7
7/1/08-6/30/09	6,801,303	1.010	313,390	1.000	313,390	21.9	26.9
7/1/09-6/30/10	5,429,276	1.007	311,357	1.000	311,357	17.6	20.8
7/1/10-6/30/11	7,833,380	1.008	310,681	1.000	310,681	25.4	29.1
7/1/11-6/30/12	6,651,831	1.006	313,282	1.000	313,282	21.4	23.6
7/1/12-6/30/13	9,365,442	1.003	314,878	1.000	314,878	29.8	31.9
7/1/13-6/30/14	11,500,010	1.001	320,036	1.000	320,036	36.0	37.2
7/1/14-6/30/15	10,042,957	1.000	330,239	1.000	330,239	30.4	30.4
Total	107,760,682		4,460,846		4,460,846		

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14:	30.4
Average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14 excluding extremes:	29.9
Weighted average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14:	30.5
Weighted average of fiscal years 7/1/03-6/30/04 through 7/1/13-6/30/14:	31.8
Weighted average of fiscal years 7/1/10-6/30/11 through 7/1/13-6/30/14:	30.5
Indicated 7/1/14-6/30/15 loss & ALAE cost:	30.5

Notes:

Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgment

Column (2) based on the latest published NCCI Statistical Bulletin

Column (3) provided by City of Virginia Beach.

Column (4) not used in this study.

Column (6) equals Column (1) x Column (2) / Column (5)

Column (7) equals Column (6) x the selected loss cost trend of 3.45%

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015
Loss & ALAE Limited to \$250,000

Average Severity Method

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Selected Ultimate Claim Counts (3)	Indicated Average Severity (4)	Trended to FY2015 Average Severity (5)	Fitted Severity (6)	Estimated Ultimate Loss & ALAE (3) x (6) (7)	Indicated Loss & ALAE Cost (8)
7/1/99-6/30/00	2,447,687	1.040	788	3,230	5,031	6,099	4,806,130	24.5
7/1/00-6/30/01	3,867,308	1.033	762	5,245	7,934	6,320	4,815,700	23.2
7/1/01-6/30/02	3,667,660	1.028	862	4,375	6,426	6,542	5,639,168	25.5
7/1/02-6/30/03	3,123,982	1.023	729	4,385	6,252	6,772	4,936,721	21.0
7/1/03-6/30/04	5,163,321	1.022	782	6,749	9,343	6,982	5,459,955	22.0
7/1/04-6/30/05	5,914,901	1.021	745	8,108	10,896	7,199	5,363,026	20.4
7/1/05-6/30/06	4,792,293	1.018	814	5,994	7,821	7,437	6,053,635	21.8
7/1/06-6/30/07	5,047,359	1.015	814	6,294	7,973	7,683	6,253,949	21.4
7/1/07-6/30/08	4,882,253	1.012	747	6,615	8,135	7,937	5,929,099	19.3
7/1/08-6/30/09	4,699,524	1.010	680	6,980	8,335	8,192	5,570,343	17.8
7/1/09-6/30/10	4,604,891	1.007	724	6,405	7,425	8,463	6,127,027	19.7
7/1/10-6/30/11	5,633,277	1.008	771	7,365	8,289	8,708	6,713,799	21.6
7/1/11-6/30/12	5,159,248	1.006	774	6,706	7,328	8,987	6,956,004	22.2
7/1/12-6/30/13	7,719,193	1.003	740	10,456	11,093	9,284	6,874,988	21.8
7/1/13-6/30/14	9,878,844	1.001	798	12,394	12,766	9,582	7,645,393	23.9
7/1/14-6/30/15	8,323,950	1.000	755	11,024	11,024	9,879	7,459,622	22.6
Total	84,925,690		12,285				96,604,559	

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

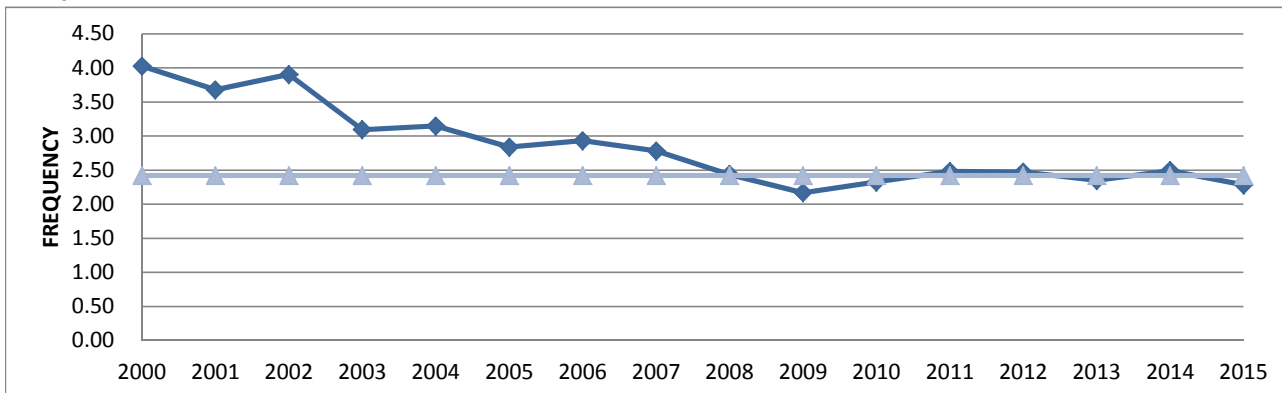
Average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14:	8,336
Average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14 excluding extremes	8,250
Weighted average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14:	8,323
Weighted average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14:	9,090
Weighted average of fiscal years 7/1/10-6/30/11 through 7/1/13-6/30/14:	9,879
Selected 7/1/14-6/30/15 severity:	9,879

Notes:

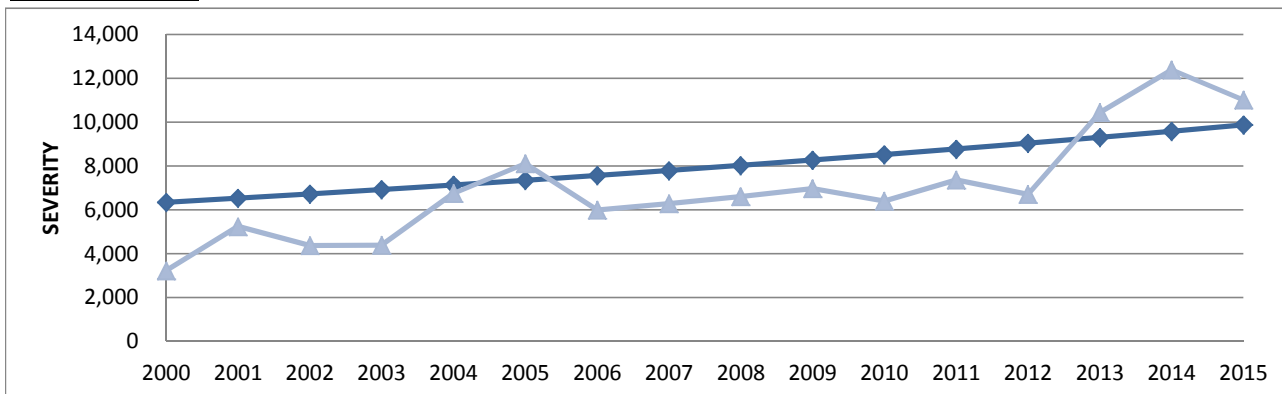
- Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgment
- Column (2) based on the latest published NCCI Statistical Bulletin
- Column (3) is from Exhibit 4, Sheet 1, Column (3).
- Column (4) equals Column (1) x Column (2) / Column (3)
- Column (5) equals Column (4) x the selected severity trend of 3.00%
- Column (6) for all fiscal years is the selected fiscal year 7/1/14-6/30/15 severity detrended at an annual rate of 3.00%, and adjusted to the appropriate benefit level
- Column (8) equals Column (7) / Payroll (000's).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015

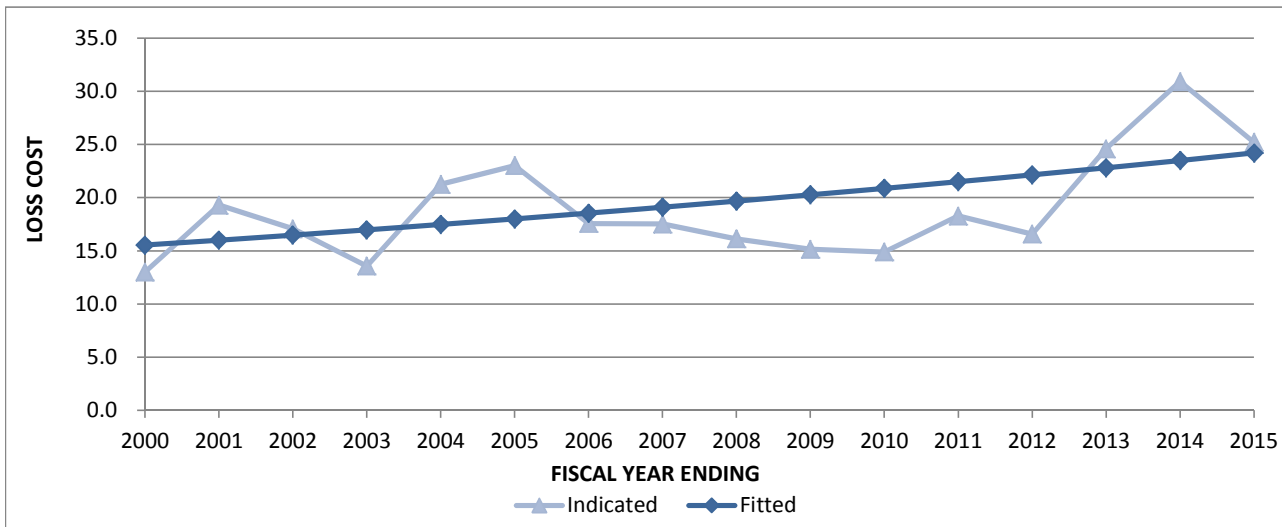
FREQUENCY TREND



SEVERITY TREND



LOSS COST TREND



Notes:

The selected frequency trend is 0.00%.

The selected severity trend is 3.00%.

The selected loss cost trend is 3.00%.

The severity and loss cost trends (for both Indicated and Fitted lines) are shown at a \$250,000 per occurrence limit.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015

Estimate of Ultimate Claim Counts

Fiscal Years	Reported Claim Development Method (1)	Reported Bornhuetter-Ferguson Method (2)	Selected Ultimate Claim Counts (3)	Implied Frequency (4)	Closed Claim Counts as of 6/30/15 (5)	Implied Open and IBNR Claim Counts (3) - (5) (6)
7/1/85-6/30/86	na	na	na	na	na	1
7/1/86-6/30/87	na	na	na	na	na	1
7/1/87-6/30/88	na	na	na	na	na	5
7/1/88-6/30/89	na	na	na	na	na	2
7/1/89-6/30/90	na	na	na	na	na	0
7/1/90-6/30/91	na	na	541	na	538	3
7/1/91-6/30/92	na	na	639	na	638	1
7/1/92-6/30/93	na	na	659	na	659	0
7/1/93-6/30/94	na	na	670	na	668	2
7/1/94-6/30/95	na	na	689	na	687	2
7/1/95-6/30/96	na	na	665	na	664	1
7/1/96-6/30/97	na	na	566	na	564	2
7/1/97-6/30/98	na	na	610	na	609	1
7/1/98-6/30/99	na	na	700	na	699	1
7/1/99-6/30/00	788	788	788	4.02	785	3
7/1/00-6/30/01	762	762	762	3.68	758	4
7/1/01-6/30/02	862	862	862	3.90	860	2
7/1/02-6/30/03	729	729	729	3.09	726	3
7/1/03-6/30/04	782	782	782	3.15	774	8
7/1/04-6/30/05	745	745	745	2.84	733	12
7/1/05-6/30/06	814	814	814	2.93	803	11
7/1/06-6/30/07	814	814	814	2.78	797	17
7/1/07-6/30/08	747	747	747	2.44	732	15
7/1/08-6/30/09	680	680	680	2.17	668	12
7/1/09-6/30/10	724	724	724	2.33	708	16
7/1/10-6/30/11	771	771	771	2.48	756	15
7/1/11-6/30/12	774	774	774	2.47	752	22
7/1/12-6/30/13	740	740	740	2.35	700	40
7/1/13-6/30/14	798	798	798	2.49	716	82
7/1/14-6/30/15	755	756	755	2.29	499	256
Total	12,285	12,286	18,024	2.75	17,493	540

Notes:

Columns (1) and (2) are from Exhibit 4, Sheet 2, Columns (3) and (8), respectively.
 Column (3) based on Columns (1) and (2), actual reported claims, and actuarial judgment.
 Column (4) equals Column (3) / Payroll (000's) x 1,000.
 Column (5) provided by City of Virginia Beach.
 Column (6) for fiscal years 1986 through 1990 is equal to actual open claims as of 6/30/15.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of June 30, 2015

Reported Claim Methods

Fiscal Years	Reported Claim Counts as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Claim Counts (1) x (2) (3)	Payroll (000's) (4)	Indicated Frequency (3) / (4) x 1,000 (5)	Trended to FY2015 Frequency (5) x trend (6)	Fitted Frequency (7)	Reported Bornhuetter-Ferguson Method (8)
7/1/99-6/30/00	788	1.000	788	195,789	4.02	4.02	2.42	788
7/1/00-6/30/01	762	1.000	762	207,170	3.68	3.68	2.42	762
7/1/01-6/30/02	862	1.000	862	220,877	3.90	3.90	2.42	862
7/1/02-6/30/03	729	1.000	729	235,632	3.09	3.09	2.42	729
7/1/03-6/30/04	782	1.000	782	248,418	3.15	3.15	2.42	782
7/1/04-6/30/05	745	1.000	745	262,426	2.84	2.84	2.42	745
7/1/05-6/30/06	814	1.000	814	277,717	2.93	2.93	2.42	814
7/1/06-6/30/07	814	1.000	814	292,480	2.78	2.78	2.42	814
7/1/07-6/30/08	747	1.000	747	306,475	2.44	2.44	2.42	747
7/1/08-6/30/09	680	1.000	680	313,390	2.17	2.17	2.42	680
7/1/09-6/30/10	724	1.000	724	311,357	2.33	2.33	2.42	724
7/1/10-6/30/11	771	1.000	771	310,681	2.48	2.48	2.42	771
7/1/11-6/30/12	774	1.000	774	313,282	2.47	2.47	2.42	774
7/1/12-6/30/13	740	1.001	740	314,878	2.35	2.35	2.42	740
7/1/13-6/30/14	795	1.004	798	320,036	2.49	2.49	2.42	798
7/1/14-6/30/15	736	1.026	755	330,239	2.29	2.29	2.42	756
Total	12,263		12,285	4,460,846				12,286

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14:	2.88
Average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14 excluding extremes	2.84
Average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14 excluding extremes	2.41
Weighted average of fiscal years 7/1/99-6/30/00 through 7/1/13-6/30/14:	2.79
Weighted average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14:	2.39
Weighted average of fiscal years 7/1/10-6/30/11 through 7/1/13-6/30/14:	2.45
Selected 7/1/14-6/30/15 frequency:	2.42

Notes:

Columns (1) and (4) provided by City of Virginia Beach.
The age to ultimate factors in Column (2) are derived from Exhibit 6, Sheet 7
The selected frequency trend used in Column (6) is 0.00%.
Column (7) for all fiscal years is the selected fiscal year 7/1/14-6/30/15 frequency, detrended at an annual rate of 0.00%
Column (8) equals Column (1) + Column (4) x Column (7) x [1.0 - 1.0 / Column (2)] / 1,000].

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Workers Compensation
Data as of April 30, 2015

Open Claims

Accident Period	Evaluation Date in Months																							
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
5/1/91-4/30/92											4	3	2	2	2	2	2	2	2	2	3	3	1	1
5/1/92-4/30/93										5	1	2	1	2	1	2	2	1	1	0	2	1	0	
5/1/93-4/30/94									3	3	1	1	1	2	1	3	2	2	2	2	2	2	2	
5/1/94-4/30/95								3	2	2	1	0	2	2	0	0	0	1	1	1	0	3		
5/1/95-4/30/96							2	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0		
5/1/96-4/30/97					9	3	2	3	2	2	2	3	1	1	2	1	2	2	2	1				
5/1/97-4/30/98					6	4	2	6	4	2	3	2	1	1	1	1	1	1	1	1	2			
5/1/98-4/30/99				12	4	2	0	1	1	1	1	1	1	2	2	2	2	2	2	2	2			
5/1/99-4/30/00			15	4	4	1	0	1	3	2	2	3	2	2	3	3								
5/1/00-4/30/01		57	12	6	3	3	1	6	3	5	4	4	4	4	4	4	4	4	4	4				
5/1/01-4/30/02	330	30	10	6	3	4	6	4	4	4	4	4	2	2	2									
5/1/02-4/30/03	246	37	13	3	2	5	6	3	4	4	3	3	3	2										
5/1/03-4/30/04	291	33	11	11	9	12	10	11	9	10	7	4												
5/1/04-4/30/05	263	34	26	23	22	19	21	17	17	17	12													
5/1/05-4/30/06	275	28	27	21	19	19	19	18	16	13														
5/1/06-4/30/07	321	61	27	21	17	15	16	19	16															
5/1/07-4/30/08	273	53	29	24	18	19	18	17																
5/1/08-4/30/09	209	50	26	17	19	20	12																	
5/1/09-4/30/10	200	46	29	21	13	15																		
5/1/10-4/30/11	155	41	32	20	15																			
5/1/11-4/30/12	190	75	38	21																				
5/1/12-4/30/13	323	69	37																					
5/1/13-4/30/14	255	69																						
5/1/14-4/30/15	271																							

Closed Claims

Accident Period	Evaluation Date in Months																							
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
5/1/91-4/30/92											624	625	627	627	627	627	627	627	627	627	626	626	628	628
5/1/92-4/30/93										657	661	660	661	660	661	660	660	661	661	662	660	661	662	
5/1/93-4/30/94									659	660	662	662	661	662	660	661	661	661	661	661	661	661	661	
5/1/94-4/30/95								693	694	694	695	696	694	694	696	696	696	695	695	696	693			
5/1/95-4/30/96						693	693	694	694	695	695	695	694	694	694	694	694	694	694	694	694	694	694	
5/1/96-4/30/97						563	563	565	565	565	565	564	566	566	566	565	566	565	565	566				
5/1/97-4/30/98					559	562	565	564	566	565	566	567	567	567	567	567	567	566						
5/1/98-4/30/99				676	682	684	686	688	687	687	687	687	687	686	686	686	686	686	686	686				
5/1/99-4/30/00				794	794	797	798	797	797	796	796	796	796	796	795	795	795	795						
5/1/00-4/30/01				766	772	775	775	777	772	775	773	774	774	774	774	774	774	774	775					
5/1/01-4/30/02	482	800	825	829	833	832	831	833	833	833	833	835	835	835	835									
5/1/02-4/30/03	483	705	729	738	739	736	735	738	737	737	738	738	739											
5/1/03-4/30/04	512	774	794	795	799	796	798	797	799	798	801	804												
5/1/04-4/30/05	480	703	712	719	720	723	722	726	726	726	731													
5/1/05-4/30/06	494	745	749	755	758	758	759	760	762	765														
5/1/06-4/30/07	494	766	805	810	814	816	816	813	817															
5/1/07-4/30/08	454	705	731	737	743	742	742	743																
5/1/08-4/30/09	452	622	646	656	654	654	662																	
5/1/09-4/30/10	487	655	674	684	692	691																		
5/1/10-4/30/11	576	706	717	728	733																			
5/1/11-4/30/12	578	710	746	765																				
5/1/12-4/30/13	424	669	705																					
5/1/13-4/30/14	515	725																						
5/1/14-4/30/15	493																							

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 Workers Compensation
 Data as of June 30, 2015

Case Reserve per \$1M Payroll (Based on \$750K data)

Accident Period	Evaluation Date in Months															
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
5/1/00-4/30/01	5,610	6,288	944	408	484	375	26	44	429	857	826	661	591	557	499	
5/1/01-4/30/02	6,561	2,497	1,717	924	690	958	818	3,554	3,657	3,450	1,120	972	950	697		
5/1/02-4/30/03	4,497	2,122	594	151	363	307	454	189	82	41	90	130	93			
5/1/03-4/30/04	6,178	8,121	3,763	4,616	2,951	4,661	4,170	3,298	2,301	1,467	1,123	849				
5/1/04-4/30/05	6,394	6,011	7,809	4,327	7,529	12,131	10,469	7,242	5,831	3,190	1,991					
5/1/05-4/30/06	4,719	7,822	7,222	8,878	10,049	7,984	6,560	5,789	4,307	2,602						
5/1/06-4/30/07	5,892	3,397	5,796	8,683	7,239	5,455	4,504	3,298	2,570							
5/1/07-4/30/08	2,299	8,567	10,394	8,390	8,260	6,971	5,491	4,142								
5/1/08-4/30/09	7,038	8,242	6,193	5,117	4,406	2,902	2,230									
5/1/09-4/30/10	3,317	2,999	3,461	2,651	1,772	2,043										
5/1/10-4/30/11	3,212	2,970	4,679	3,964	3,809											
5/1/11-4/30/12	5,694	4,083	2,816	2,303												
5/1/12-4/30/13	5,479	3,444	2,228													
5/1/13-4/30/14	5,919	3,889														
5/1/14-4/30/15	8,953															

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 Workers Compensation
 Data as of June 30, 2015

Average Case Reserve per Open Claim (Based on \$750K data)

Accident Period	Evaluation Date in Months															
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
5/1/00-4/30/01		22,643	16,152	13,949	33,103	25,668	5,342	1,510	29,343	35,200	42,391	33,925	30,347	28,568	25,593	
5/1/01-4/30/02	4,346	18,191	37,522	33,657	50,255	52,330	29,812	194,193	199,825	188,519	61,221	106,205	103,802	76,150		
5/1/02-4/30/03	4,263	13,371	10,659	11,733	42,275	14,340	17,651	14,703	4,779	2,388	6,962	10,134	10,844			
5/1/03-4/30/04	5,229	60,611	84,256	103,343	80,754	95,664	102,708	73,834	62,956	36,137	39,529	52,273				
5/1/04-4/30/05	6,323	45,979	78,113	48,936	89,014	166,059	129,659	110,803	89,211	48,810	43,156					
5/1/05-4/30/06	4,722	76,871	73,600	116,333	145,539	115,634	94,998	88,498	74,064	55,083						
5/1/06-4/30/07	5,324	16,152	62,260	119,912	123,500	105,471	81,634	50,341	46,588							
5/1/07-4/30/08	2,561	49,164	109,014	106,326	139,566	111,594	92,781	74,100								
5/1/08-4/30/09	10,514	51,472	74,376	93,984	72,402	45,302	58,020									
5/1/09-4/30/10	5,169	20,324	37,197	39,353	42,482	42,461										
5/1/10-4/30/11	6,441	22,513	45,444	61,597	78,931											
5/1/11-4/30/12	9,375	17,031	23,185	34,314												
5/1/12-4/30/13	5,337	15,703	18,946													
5/1/13-4/30/14	7,409	17,991														
5/1/14-4/30/15	10,854															

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 Workers Compensation
 Data as of June 30, 2015
 Loss & ALAE Limited to Retention

Comparison of Expected Development to Actual Development

SECTION I - REPORTED LOSS & ALAE

Fiscal Years	Selected Ultimate Loss & ALAE as of 4/30/13 (1)	Actual Reported Loss & ALAE as of		Expected Percent Reported as of		Actual Change in Reported	Expected Change in Reported 4/13 - 6/15 (5)	Actual Minus Expected (4) - (5) (6)	Selected Ultimate Loss & ALAE as of 6/30/15 (7)	Change in Ultimate Loss & ALAE (8)
		4/30/13 (2a)	6/30/15 (2b)	4/30/13 (3a)	6/30/15 (3b)	4/13 - 6/15 (2b) - (2a) (4)				
7/1/90-6/30/91 *	1,929,843	1,910,537	1,913,674	99.0%	99.2%	3,137	4,131	(994)	1,934,394	4,551
7/1/91-6/30/92	1,842,653	1,794,532	1,815,083	98.9%	99.1%	20,551	10,285	10,266	1,847,884	5,231
7/1/92-6/30/93	2,282,259	2,260,327	2,233,888	98.5%	98.8%	(26,440)	4,446	(30,886)	2,233,888	(48,371)
7/1/93-6/30/94	2,794,336	2,749,287	2,749,848	98.4%	98.7%	561	9,131	(8,570)	2,794,882	545
7/1/94-6/30/95	2,508,655	2,495,335	2,648,840	98.2%	98.6%	153,505	2,691	150,815	2,695,902	187,247
7/1/95-6/30/96	1,894,361	1,880,611	1,884,601	98.4%	98.4%	3,991	2,767	1,223	1,896,549	2,188
7/1/96-6/30/97	2,244,720	2,232,065	2,227,300	97.8%	98.2%	(4,765)	2,543	(7,308)	2,242,028	(2,692)
7/1/97-6/30/98	1,932,672	1,932,672	1,938,172	97.6%	98.1%	5,500	0	5,500	1,950,673	18,001
7/1/98-6/30/99	2,173,819	2,135,814	2,124,530	97.2%	97.8%	(11,283)	8,362	(19,645)	2,146,793	(27,025)
7/1/99-6/30/00	2,425,919	2,391,871	2,426,067	96.8%	97.6%	34,196	8,349	25,847	2,466,296	40,377
7/1/00-6/30/01	3,883,303	3,792,508	3,802,264	96.4%	97.3%	9,757	23,094	(13,338)	3,883,465	162
7/1/01-6/30/02	3,843,416	3,738,360	3,749,860	95.8%	96.9%	11,500	26,505	(15,005)	3,852,207	8,791
7/1/02-6/30/03	2,992,438	2,911,159	3,113,127	95.3%	96.4%	201,969	20,383	181,585	3,205,156	212,718
7/1/03-6/30/04	6,918,545	6,706,692	6,478,490	94.6%	95.9%	(228,202)	52,715	(280,916)	6,667,887	(250,658)
7/1/04-6/30/05	8,023,301	7,723,364	7,842,451	93.8%	95.4%	119,088	74,012	45,076	8,156,167	132,866
7/1/05-6/30/06	7,093,762	6,741,575	6,915,428	92.3%	94.2%	173,853	84,728	89,125	7,267,964	174,202
7/1/06-6/30/07	5,578,717	5,219,917	5,498,304	91.1%	93.3%	278,387	88,673	189,714	5,872,087	293,370
7/1/07-6/30/08	8,026,643	7,612,262	7,657,426	89.5%	92.2%	45,164	109,181	(64,017)	8,232,887	206,244
7/1/08-6/30/09	6,883,893	6,165,630	6,602,084	87.7%	91.1%	436,453	200,105	236,348	7,051,063	167,170
7/1/09-6/30/10	5,325,719	4,399,902	4,892,282	82.8%	89.7%	492,380	204,531	287,849	5,450,158	124,438
7/1/10-6/30/11	6,872,252	5,443,047	6,853,582	79.4%	88.1%	1,410,535	603,497	807,038	7,868,317	996,065
7/1/11-6/30/12	6,653,400 **	4,100,035	5,516,179	64.7%	85.8%	1,416,143	1,523,816	(107,673)	6,702,846	49,445
7/1/12-6/30/13	7,788,348 **	3,043,952	7,162,088	37.4%	78.7%	4,118,136	3,131,497	986,639	9,510,821	1,722,473
7/1/13-6/30/14	7,968,413 **	0	8,689,311	0.0%	65.5%	8,689,311	5,217,778	3,471,533	11,827,623	3,859,210
7/1/14-6/30/15	8,428,028 **	0	4,349,678	0.0%	45.9%	4,349,678	3,872,048	477,630	10,406,753	1,978,726
Total All Years	118,309,415	89,381,453	111,084,557			21,703,104	15,368,585	6,334,519	128,164,691	9,855,276
Exclude FY14 & FY15	101,912,974	89,381,453	98,045,569			8,664,116	6,278,759	2,385,356	105,930,314	4,017,340

SECTION II - PAID LOSS & ALAE

Fiscal Years	Selected Ultimate Loss & ALAE as of 4/30/13 (1)	Actual Paid Loss & ALAE as of		Expected Percent Paid as of		Actual Change in Paid	Expected Change in Paid 4/13 - 6/15 (5)	Actual Minus Expected (4) - (5) (6)	Selected Ultimate Loss & ALAE as of 6/30/15 (7)	Change in Ultimate Loss & ALAE (8)
		4/30/13 (2a)	6/30/15 (2b)	4/30/13 (3a)	6/30/15 (3b)	4/13 - 6/15 (2b) - (2a) (4)				
7/1/90-6/30/91	1,929,843	1,755,731	1,779,984	97.7%	98.3%	24,254	41,173	(16,919)	1,934,394	4,551
7/1/91-6/30/92	1,842,653	1,732,025	1,791,752	97.4%	98.0%	59,727	26,125	33,602	1,847,884	5,231
7/1/92-6/30/93	2,282,259	2,231,110	2,233,888	96.6%	97.4%	2,777	11,463	(8,685)	2,233,888	(48,371)
7/1/93-6/30/94	2,794,336	2,673,921	2,714,289	96.2%	97.0%	40,368	26,940	13,428	2,794,882	545
7/1/94-6/30/95	2,508,655	2,476,805	2,527,954	95.7%	96.7%	51,148	7,111	44,037	2,695,902	187,247
7/1/95-6/30/96	1,894,361	1,869,600	1,877,862	95.2%	96.3%	8,262	5,511	2,750	1,896,549	2,188
7/1/96-6/30/97	2,244,720	2,213,720	2,220,350	94.6%	95.8%	6,630	6,872	(242)	2,242,028	(2,692)
7/1/97-6/30/98	1,932,672	1,932,672	1,934,865	94.0%	95.3%	2,193	0	2,193	1,950,673	18,001
7/1/98-6/30/99	2,173,819	2,080,944	2,105,581	93.2%	94.7%	24,637	20,399	4,238	2,146,793	(27,025)
7/1/99-6/30/00	2,425,919	2,385,713	2,402,831	92.4%	94.1%	17,118	8,786	8,332	2,466,296	40,377
7/1/00-6/30/01	3,883,303	3,671,118	3,702,464	91.5%	93.4%	31,346	46,114	(14,769)	3,883,465	162
7/1/01-6/30/02	3,843,416	3,525,950	3,615,996	90.5%	92.6%	90,045	68,587	21,458	3,852,207	8,791
7/1/02-6/30/03	2,992,438	2,889,413	3,090,891	89.4%	91.7%	201,479	22,115	179,363	3,205,156	212,718
7/1/03-6/30/04	6,918,545	5,997,860	6,279,720	88.1%	90.7%	281,860	196,252	85,608	6,667,887	(250,658)
7/1/04-6/30/05	8,023,301	6,685,050	7,485,948	86.7%	89.6%	802,898	293,879	509,019	8,156,167	132,866
7/1/05-6/30/06	7,093,762	5,187,371	6,226,280	82.8%	87.6%	1,038,909	530,086	508,823	7,267,964	174,202
7/1/06-6/30/07	5,578,717	4,176,959	4,911,936	77.0%	86.0%	734,977	551,065	183,912	5,872,087	293,370
7/1/07-6/30/08	8,026,643	5,323,523	6,443,881	70.6%	83.0%	1,120,358	1,146,701	(26,343)	8,232,887	206,244
7/1/08-6/30/09	6,883,893	4,677,902	5,704,565	63.3%	77.4%	1,026,663	846,117	180,546	7,051,063	167,170
7/1/09-6/30/10	5,325,719	3,267,942	4,093,209	56.4%	71.7%	825,267	720,682	104,585	5,450,158	124,438
7/1/10-6/30/11	6,872,252	3,903,010	5,590,050	48.4%	64.4%	1,687,040	916,876	770,164	7,868,317	996,065
7/1/11-6/30/12	6,653,400 **	3,071,736	5,008,772	36.6%	57.6%	1,937,036	1,187,206	749,831	6,702,846	49,445
7/1/12-6/30/13	7,788,348 **	1,476,616	6,436,312	13.8%	49.8%	4,959,697	2,638,021	2,321,675	9,510,821	1,722,473
7/1/13-6/30/14	7,968,413 **	0	6,941,003	0.0%	38.8%	6,941,003	3,094,732	3,846,271	11,827,623	3,859,210
7/1/14-6/30/15	8,428,028 **	0	2,397,822	0.0%	19.0%	2,397,822	1,597,711	800,111	10,406,753	1,978,726
Total All Years	118,309,415	75,204,691	99,518,203			24,313,513	14,010,525	10,302,988	128,164,691	9,855,276
Exclude FY14 & FY15	101,912,974	75,204,691	90,179,379			14,974,688	9,318,082	5,656,606	105,930,314	4,017,340

Notes:

Columns (1), (2a), and (3) are from Oliver Wyman's report using data valued as of April 30, 2013.
 Column (2b) provided by City of Virginia Beach.
 Column (5) equals [Column (1) - Column (2a)] x [Column (3b) - Column (3a)] / [1.00 - Column (3a)].
 Column (7) equals Exhibit I, Sheet 4, Column (9).
 Column (8) equals Column (7) - Column (1).

* Fiscal year 1991 only includes claims with date of loss 8/1/1990 and later.

** The selected ultimates for fiscal years ending 2012 through 2015 have been revised with updated exposures.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Summary of Unpaid Loss & ALAE as of June 30, 2016

Fiscal Years	Selected Ultimate Loss & ALAE as of 6/30/15 (1)	Total Unpaid Loss & ALAE as of 6/30/15 (2)	% Paid Loss & ALAE as of 6/30/15 (3)	% Paid Loss & ALAE as of 6/30/16 (4)	Expected Paid Between 6/30/15 and 6/30/16 (5)	Total Unpaid Loss & ALAE as of 6/30/16 (6)
7/1/04-6/30/05	333,698	0	99.7%	99.8%	0	0
7/1/05-6/30/06	517,284	8,018	99.6%	99.7%	2,001	6,016
7/1/06-6/30/07	421,983	50,083	99.4%	99.6%	16,656	33,428
7/1/07-6/30/08	1,310,079	4,160	99.1%	99.4%	1,382	2,778
7/1/08-6/30/09	897,537	0	98.4%	99.1%	0	0
7/1/09-6/30/10	964,844	14,697	96.5%	98.4%	8,072	6,626
7/1/10-6/30/11	474,350	17,258	92.8%	96.5%	8,865	8,393
7/1/11-6/30/12	435,132	190,930	88.4%	92.8%	72,450	118,481
7/1/12-6/30/13	393,905	122,793	73.6%	88.4%	68,576	54,217
7/1/13-6/30/14	640,762	304,576	54.5%	73.6%	127,902	176,674
7/1/14-6/30/15	630,610	494,934	27.3%	54.5%	185,582	309,352
7/1/15-6/30/16	687,481	0	0.0%	27.3%	187,481	499,999
Total	7,707,663	1,207,450			678,967	1,215,965
					Current (Short-term) Liability (excludes FY2016)*: as a percent of 6/30/15 Liability:	491,485 41%

Notes:

Column (1) is from Exhibit 1, Sheet 4, Column (9).

Column (2) is from Exhibit 1, Sheet 3, Column (6).

Columns (3) and (4) are based on Exhibit 6, Sheet 6.

Column (5) equals Column (2) x [Column (4) - Column (3)] / [1.0 - Column (3)].

Column (6) equals Exhibit 1, Sheet 4, Column (9) - Exhibit 1, Sheet 4, Column (7) - Column (5).

* Current (Short-term) liability is calculated as the expected payments during the next 12 months for accidents occurring through the current evaluation date only.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Summary of Reported Loss & ALAE and IBNR as of June 30, 2016

Fiscal Years	Selected Ultimate Loss & ALAE as of 6/30/15 (1)	Total IBNR as of 6/30/15 (2)	% Reported Loss & ALAE as of 6/30/15 (3)	% Reported Loss & ALAE as of 6/30/16 (4)	Expected Rpt Between 6/30/15 and 6/30/16 (5)	Total IBNR as of 6/30/16 (6)
7/1/04-6/30/05	333,698	0	99.9%	100.0%	0	0
7/1/05-6/30/06	517,284	4,013	99.8%	99.9%	2,005	2,007
7/1/06-6/30/07	421,983	25,083	99.7%	99.8%	8,353	16,731
7/1/07-6/30/08	1,310,079	3,060	99.6%	99.7%	764	2,296
7/1/08-6/30/09	897,537	0	99.4%	99.6%	0	0
7/1/09-6/30/10	964,844	12,032	98.4%	99.4%	7,486	4,547
7/1/10-6/30/11	474,350	16,658	96.5%	98.4%	9,154	7,504
7/1/11-6/30/12	435,132	35,274	91.9%	96.5%	19,993	15,281
7/1/12-6/30/13	393,905	92,260	76.6%	91.9%	60,329	31,932
7/1/13-6/30/14	640,762	266,376	58.9%	76.6%	114,551	151,825
7/1/14-6/30/15	630,610	450,725	32.7%	58.9%	175,404	275,321
7/1/15-6/30/16	687,481	0	0.0%	32.7%	224,982	462,498
Total	7,707,663	905,482			623,021	969,942

Notes:

Column (1) is from Exhibit 1, Sheet 4, Column (9).

Column (2) is from Exhibit 1, Sheet 3, Column (5).

Columns (3) and (4) are based on Exhibit 6, Sheet 5.

Column (5) equals Column (2) x [Column (4) - Column (3)] / [1.0 - Column (3)].

Column (6) equals Exhibit 1, Sheet 4, Column (9) - Exhibit 1, Sheet 4, Column (6) - Column (5).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Summary of Reserves as of June 30, 2015

Fiscal Years	Selected Ultimate Loss & ALAE (1)	Reported Loss & ALAE as of 6/30/15 (2)	Paid Loss & ALAE as of 6/30/15 (3)	Case Reserves as of 6/30/15 (4)	IBNR Reserves as of 6/30/15 (5)	Total Unpaid Loss & ALAE as of 6/30/15 (6)
7/1/04-6/30/05	333,698	333,698	333,698	0	0	0
7/1/05-6/30/06	517,284	513,271	509,266	4,005	4,013	8,018
7/1/06-6/30/07	421,983	396,899	371,899	25,000	25,083	50,083
7/1/07-6/30/08	1,310,079	1,307,018	1,305,918	1,100	3,060	4,160
7/1/08-6/30/09	897,537	897,537	897,537	0	0	0
7/1/09-6/30/10	964,844	952,811	950,146	2,665	12,032	14,697
7/1/10-6/30/11	474,350	457,692	457,092	600	16,658	17,258
7/1/11-6/30/12	435,132	399,858	244,202	155,657	35,274	190,930
7/1/12-6/30/13	393,905	301,644	271,111	30,533	92,260	122,793
7/1/13-6/30/14	640,762	374,386	336,186	38,200	266,376	304,576
7/1/14-6/30/15	630,610	179,885	135,676	44,209	450,725	494,934
Total	7,020,182	6,114,700	5,812,732	301,968	905,482	1,207,450

Notes:

- Column (1) is from Exhibit 1, Sheet 4, Column (9).
- Columns (2) and (3) provided by City of Virginia Beach.
- Column (4) equals Column (2) - Column (3).
- Column (5) equals Column (1) - Column (2).
- Column (6) equals Column (4) + Column (5).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention
Estimate of Ultimate Loss & ALAE

Fiscal Years	Reported Loss & ALAE Development Method (1)	Paid Loss & ALAE Development Method (2)	Reported Bornhuetter-Ferguson Method (3)	Paid Bornhuetter-Ferguson Method (4)	Case Development Method (5)	Reported Loss & ALAE as of 6/30/15 (6)	Paid Loss & ALAE as of 6/30/15 (7)	Implied Open and IBNR Claim Counts (8a)	Implied Open and IBNR Claim Counts within Retention (8b)	Selected Ultimate Loss & ALAE (9)	Implied Loss & ALAE Cost (10)
7/1/04-6/30/05	334,032	334,701	334,194	335,185	333,698	333,698	333,698	0	0	333,698	0.351
7/1/05-6/30/06	514,298	511,306	514,303	511,329	517,284	513,271	509,266	1	1	517,284	0.525
7/1/06-6/30/07	398,091	374,136	398,619	375,334	421,983	396,899	371,899	1	1	421,983	0.388
7/1/07-6/30/08	1,312,254	1,317,714	1,309,435	1,311,341	1,307,903	1,307,018	1,305,918	2	2	1,310,079	1.149
7/1/08-6/30/09	902,934	911,983	901,171	907,167	897,537	897,537	897,537	0	0	897,537	0.789
7/1/09-6/30/10	968,127	984,748	962,499	971,663	954,994	952,811	950,146	2	2	964,844	0.847
7/1/10-6/30/11	474,350	492,687	479,067	501,068	458,259	457,692	457,092	2	2	474,350	0.421
7/1/11-6/30/12	435,132	276,380	449,688	315,768	756,687	399,858	244,202	1	1	435,132	0.385
7/1/12-6/30/13	393,905	368,202	451,550	439,877	544,325	301,644	271,111	4	4	393,905	0.337
7/1/13-6/30/14	635,564	616,385	640,762	630,854	734,054	374,386	336,186	4	4	640,762	0.544
7/1/14-6/30/15	549,675	497,512	630,610	622,947	725,113	179,885	135,676	71	71	630,610	0.521
Total	6,918,362	6,685,753	7,071,899	6,922,533	7,651,836	6,114,700	5,812,732	87	87	7,020,182	
7/1/15-6/30/16										687,481	0.557

Notes:
Column (1) is from Exhibit 2, Sheet 1, Column (3).
Column (2) is from Exhibit 2, Sheet 3, Column (3).
Column (3) is from Exhibit 2, Sheet 5, Column (5).
Column (4) is from Exhibit 2, Sheet 6, Column (5).
Column (5) is from Exhibit 2, Sheet 7, Column (6).
Columns (6) and (7) provided by City of Virginia Beach.
Column (8a) is from Exhibit 4, Sheet 1, Column (6).
Column (8b) based on Column (8a) and individual claim detail.
Column (9) based on Columns (1) through (8b) and actuarial judgment. Fiscal year 7/1/15-6/30/16 is from Exhibit 3, Sheet 1, Column (5).
Column (10) equals Column (9) / Revenue (000's).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Reported Loss & ALAE Development Method

Fiscal Years	Retention	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Ultimate Loss & ALAE (1) x (2) (3)	Revenue (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	2,000,000	333,698	1.001	334,032	951,817	0.351
7/1/05-6/30/06	2,000,000	513,271	1.002	514,298	985,307	0.522
7/1/06-6/30/07	2,000,000	396,899	1.003	398,091	1,088,153	0.366
7/1/07-6/30/08	2,000,000	1,307,018	1.004	1,312,254	1,140,564	1.151
7/1/08-6/30/09	2,000,000	897,537	1.006	902,934	1,137,964	0.793
7/1/09-6/30/10	2,000,000	952,811	1.016	968,127	1,139,279	0.850
7/1/10-6/30/11	2,000,000	457,692	1.036	474,350	1,125,705	0.421
7/1/11-6/30/12	2,000,000	399,858	1.088	435,132	1,130,045	0.385
7/1/12-6/30/13	2,000,000	301,644	1.306	393,905	1,169,584	0.337
7/1/13-6/30/14	2,000,000	374,386	1.698	635,564	1,177,491	0.540
7/1/14-6/30/15	2,000,000	179,885	3.056	549,675	1,209,774	0.454
Total		6,114,700		6,918,362	12,255,682	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheet 5.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015

Reported Loss & ALAE Development Method

Section I - Reported Loss & ALAE Limited to \$250,000

Fiscal Years	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Revenue (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	333,698	1.000	333,698	951,817	0.351
7/1/05-6/30/06	513,271	1.000	513,271	985,307	0.521
7/1/06-6/30/07	396,899	1.001	397,296	1,088,153	0.365
7/1/07-6/30/08	618,375	1.002	619,613	1,140,564	0.543
7/1/08-6/30/09	652,001	1.003	653,959	1,137,964	0.575
7/1/09-6/30/10	740,985	1.006	745,440	1,139,279	0.654
7/1/10-6/30/11	457,692	1.013	463,667	1,125,705	0.412
7/1/11-6/30/12	399,858	1.023	409,129	1,130,045	0.362
7/1/12-6/30/13	301,644	1.126	339,501	1,169,584	0.290
7/1/13-6/30/14	374,386	1.351	505,648	1,177,491	0.429
7/1/14-6/30/15	179,885	2.026	364,429	1,209,774	0.301
Total	4,968,695		5,345,651	12,255,682	

Section II - Reported Loss & ALAE Limited to \$1,000,000

Fiscal Years	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Revenue (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	333,698	1.000	333,698	951,817	0.351
7/1/05-6/30/06	513,271	1.001	513,784	985,307	0.521
7/1/06-6/30/07	396,899	1.002	397,694	1,088,153	0.365
7/1/07-6/30/08	1,307,018	1.003	1,310,943	1,140,564	1.149
7/1/08-6/30/09	897,537	1.005	902,032	1,137,964	0.793
7/1/09-6/30/10	952,811	1.010	962,372	1,139,279	0.845
7/1/10-6/30/11	457,692	1.020	466,907	1,125,705	0.415
7/1/11-6/30/12	399,858	1.046	418,107	1,130,045	0.370
7/1/12-6/30/13	301,644	1.202	362,722	1,169,584	0.310
7/1/13-6/30/14	374,386	1.503	562,742	1,177,491	0.478
7/1/14-6/30/15	179,885	2.555	459,655	1,209,774	0.380
Total	6,114,700		6,690,656	12,255,682	

Section III - Reported Loss & ALAE Limited to \$2,000,000

Fiscal Years	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Revenue (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	333,698	1.001	334,032	951,817	0.351
7/1/05-6/30/06	513,271	1.002	514,298	985,307	0.522
7/1/06-6/30/07	396,899	1.003	398,091	1,088,153	0.366
7/1/07-6/30/08	1,307,018	1.004	1,312,254	1,140,564	1.151
7/1/08-6/30/09	897,537	1.006	902,934	1,137,964	0.793
7/1/09-6/30/10	952,811	1.016	968,127	1,139,279	0.850
7/1/10-6/30/11	457,692	1.036	474,350	1,125,705	0.421
7/1/11-6/30/12	399,858	1.088	435,132	1,130,045	0.385
7/1/12-6/30/13	301,644	1.306	393,905	1,169,584	0.337
7/1/13-6/30/14	374,386	1.698	635,564	1,177,491	0.540
7/1/14-6/30/15	179,885	3.056	549,675	1,209,774	0.454
Total	6,114,700		6,918,362	12,255,682	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheets 1, 3, and 5.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Paid Loss & ALAE Development Method

Fiscal Years	Retention	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Ultimate Loss & ALAE (1) x (2) (3)	Revenue (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	2,000,000	333,698	1.003	334,701	951,817	0.352
7/1/05-6/30/06	2,000,000	509,266	1.004	511,306	985,307	0.519
7/1/06-6/30/07	2,000,000	371,899	1.006	374,136	1,088,153	0.344
7/1/07-6/30/08	2,000,000	1,305,918	1.009	1,317,714	1,140,564	1.155
7/1/08-6/30/09	2,000,000	897,537	1.016	911,983	1,137,964	0.801
7/1/09-6/30/10	2,000,000	950,146	1.036	984,748	1,139,279	0.864
7/1/10-6/30/11	2,000,000	457,092	1.078	492,687	1,125,705	0.438
7/1/11-6/30/12	2,000,000	244,202	1.132	276,380	1,130,045	0.245
7/1/12-6/30/13	2,000,000	271,111	1.358	368,202	1,169,584	0.315
7/1/13-6/30/14	2,000,000	336,186	1.833	616,385	1,177,491	0.523
7/1/14-6/30/15	2,000,000	135,676	3.667	497,512	1,209,774	0.411
Total		5,812,732		6,685,753	12,255,682	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheet 6.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015

Paid Loss & ALAE Development Method

Section I - Paid Loss & ALAE Limited to \$250,000

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Revenue (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	333,698	1.000	333,698	951,817	0.351
7/1/05-6/30/06	509,266	1.001	509,775	985,307	0.517
7/1/06-6/30/07	371,899	1.002	372,643	1,088,153	0.342
7/1/07-6/30/08	617,275	1.003	619,129	1,140,564	0.543
7/1/08-6/30/09	652,001	1.007	656,575	1,137,964	0.577
7/1/09-6/30/10	738,320	1.017	750,935	1,139,279	0.659
7/1/10-6/30/11	457,092	1.037	474,199	1,125,705	0.421
7/1/11-6/30/12	244,202	1.079	263,475	1,130,045	0.233
7/1/12-6/30/13	271,111	1.187	321,759	1,169,584	0.275
7/1/13-6/30/14	336,186	1.484	498,739	1,177,491	0.424
7/1/14-6/30/15	135,676	2.374	322,044	1,209,774	0.266
Total	4,666,727		5,122,973	12,255,682	

Section II - Paid Loss & ALAE Limited to \$1,000,000

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Revenue (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	333,698	1.001	334,032	951,817	0.351
7/1/05-6/30/06	509,266	1.002	510,285	985,307	0.518
7/1/06-6/30/07	371,899	1.003	373,016	1,088,153	0.343
7/1/07-6/30/08	1,305,918	1.005	1,312,460	1,140,564	1.151
7/1/08-6/30/09	897,537	1.010	906,543	1,137,964	0.797
7/1/09-6/30/10	950,146	1.025	974,075	1,139,279	0.855
7/1/10-6/30/11	457,092	1.056	482,662	1,125,705	0.429
7/1/11-6/30/12	244,202	1.109	270,756	1,130,045	0.240
7/1/12-6/30/13	271,111	1.330	360,709	1,169,584	0.308
7/1/13-6/30/14	336,186	1.730	581,478	1,177,491	0.494
7/1/14-6/30/15	135,676	3.286	445,870	1,209,774	0.369
Total	5,812,732		6,551,885	12,255,682	

Section III - Paid Loss & ALAE Limited to \$2,000,000

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Revenue (000's) (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	333,698	1.003	334,701	951,817	0.352
7/1/05-6/30/06	509,266	1.004	511,306	985,307	0.519
7/1/06-6/30/07	371,899	1.006	374,136	1,088,153	0.344
7/1/07-6/30/08	1,305,918	1.009	1,317,714	1,140,564	1.155
7/1/08-6/30/09	897,537	1.016	911,983	1,137,964	0.801
7/1/09-6/30/10	950,146	1.036	984,748	1,139,279	0.864
7/1/10-6/30/11	457,092	1.078	492,687	1,125,705	0.438
7/1/11-6/30/12	244,202	1.132	276,380	1,130,045	0.245
7/1/12-6/30/13	271,111	1.358	368,202	1,169,584	0.315
7/1/13-6/30/14	336,186	1.833	616,385	1,177,491	0.523
7/1/14-6/30/15	135,676	3.667	497,512	1,209,774	0.411
Total	5,812,732		6,685,753	12,255,682	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheets 2, 4, and 6.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Reported Bornhuetter-Ferguson Method

Fiscal Years	Expected Estimate of Ultimate Loss & ALAE (1)	Age to Ultimate Factors (2)	Unreported Loss & ALAE (3)	Reported Loss & ALAE as of 6/30/15 (4)	Estimated Ultimate Loss & ALAE (3) + (4) (5)	Indicated Loss & ALAE Cost (6)
7/1/04-6/30/05	496,514	1.001	496	333,698	334,194	0.351
7/1/05-6/30/06	517,068	1.002	1,033	513,271	514,303	0.522
7/1/06-6/30/07	574,466	1.003	1,720	396,899	398,619	0.366
7/1/07-6/30/08	605,748	1.004	2,417	1,307,018	1,309,435	1.148
7/1/08-6/30/09	607,993	1.006	3,635	897,537	901,171	0.792
7/1/09-6/30/10	612,348	1.016	9,687	952,811	962,499	0.845
7/1/10-6/30/11	608,682	1.036	21,375	457,692	479,067	0.426
7/1/11-6/30/12	614,695	1.088	49,830	399,858	449,688	0.398
7/1/12-6/30/13	640,020	1.306	149,906	301,644	451,550	0.386
7/1/13-6/30/14	648,213	1.698	266,376	374,386	640,762	0.544
7/1/14-6/30/15	669,981	3.056	450,725	179,885	630,610	0.521
Total	6,595,727		957,199	6,114,700	7,071,899	

Notes:

Column (1) is from Exhibit 3, Sheet 1, Column (5).

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheet 5.

Column (3) equals Column (1) x [1.0 - 1.0 / Column (2)].

Column (4) provided by City of Virginia Beach.

Column (6) equals Column (5) / Revenue (000's).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention
Paid Bornhuetter-Ferguson Method

Fiscal Years	Expected Estimate of Ultimate Loss & ALAE (1)	Age to Ultimate Factors (2)	Unpaid Loss & ALAE (3)	Paid Loss & ALAE as of 6/30/15 (4)	Estimated Ultimate Loss & ALAE (3) + (4) (5)	Indicated Loss & ALAE Cost (6)
7/1/04-6/30/05	496,514	1.003	1,487	333,698	335,185	0.352
7/1/05-6/30/06	517,068	1.004	2,063	509,266	511,329	0.519
7/1/06-6/30/07	574,466	1.006	3,434	371,899	375,334	0.345
7/1/07-6/30/08	605,748	1.009	5,422	1,305,918	1,311,341	1.150
7/1/08-6/30/09	607,993	1.016	9,631	897,537	907,167	0.797
7/1/09-6/30/10	612,348	1.036	21,516	950,146	971,663	0.853
7/1/10-6/30/11	608,682	1.078	43,976	457,092	501,068	0.445
7/1/11-6/30/12	614,695	1.132	71,567	244,202	315,768	0.279
7/1/12-6/30/13	640,020	1.358	168,766	271,111	439,877	0.376
7/1/13-6/30/14	648,213	1.833	294,667	336,186	630,854	0.536
7/1/14-6/30/15	669,981	3.667	487,272	135,676	622,947	0.515
Total	6,595,727		1,109,801	5,812,732	6,922,533	

Notes:

Column (1) is from Exhibit 3, Sheet 1, Column (5).
The age to ultimate factors in Column (2) are based on Exhibit 6, Sheet 6.
Column (3) equals Column (1) x [1.0 - 1.0 / Column (2)].
Column (4) provided by City of Virginia Beach.
Column (6) equals Column (5) / Revenue (000's).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Case Development Method

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Case Outstanding Loss & ALAE as of 6/30/15 (2)	Percent of Ultimate Loss & ALAE Reported (3)	Percent of Ultimate Loss & ALAE Paid (4)	Incurred But Not Reported Loss & ALAE (5)	Estimated Ultimate Loss & ALAE (6)	Indicated Loss & ALAE Cost (7)
7/1/04-6/30/05	333,698	0	99.9%	99.7%	0	333,698	0.351
7/1/05-6/30/06	509,266	4,005	99.8%	99.6%	4,013	517,284	0.525
7/1/06-6/30/07	371,899	25,000	99.7%	99.4%	25,083	421,983	0.388
7/1/07-6/30/08	1,305,918	1,100	99.6%	99.1%	885	1,307,903	1.147
7/1/08-6/30/09	897,537	0	99.4%	98.4%	0	897,537	0.789
7/1/09-6/30/10	950,146	2,665	98.4%	96.5%	2,182	954,994	0.838
7/1/10-6/30/11	457,092	600	96.5%	92.8%	567	458,259	0.407
7/1/11-6/30/12	244,202	155,657	91.9%	88.4%	356,828	756,687	0.670
7/1/12-6/30/13	271,111	30,533	76.6%	73.6%	242,681	544,325	0.465
7/1/13-6/30/14	336,186	38,200	58.9%	54.5%	359,667	734,054	0.623
7/1/14-6/30/15	135,676	44,209	32.7%	27.3%	545,228	725,113	0.599
Total	5,812,732	301,968			1,537,136	7,651,836	

Notes:

Columns (1) and (2) provided by City of Virginia Beach.
The factors in Column (3) equal 1.0 / Exhibit 2, Sheet 1, Column (2).
The factors in Column (4) equal 1.0 / Exhibit 2, Sheet 3, Column (2).
Column (5) equals Column (2) x [1.0 - Column (3)] / [Column (3) - Column (4)].
Column (6) equals Column (1) + Column (2) + Column (5).
Column (7) equals Column (6) / Revenue (000's).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015

Loss Cost Method Summary

Fiscal Years	Smoothed Selected Loss & ALAE Cost @ \$1,000,000 (1)	Smoothed Selected Loss & ALAE Cost @ \$2,000,000 (2)	Smoothed Retained Loss & ALAE Cost (3)	Revenue (000's) (4)	Estimated Ultimate Loss & ALAE (5)
7/1/04-6/30/05	0.479	0.522	0.522	951,817	496,514
7/1/05-6/30/06	0.481	0.525	0.525	985,307	517,068
7/1/06-6/30/07	0.483	0.528	0.528	1,088,153	574,466
7/1/07-6/30/08	0.485	0.531	0.531	1,140,564	605,748
7/1/08-6/30/09	0.487	0.534	0.534	1,137,964	607,993
7/1/09-6/30/10	0.488	0.537	0.537	1,139,279	612,348
7/1/10-6/30/11	0.490	0.541	0.541	1,125,705	608,682
7/1/11-6/30/12	0.492	0.544	0.544	1,130,045	614,695
7/1/12-6/30/13	0.494	0.547	0.547	1,169,584	640,020
7/1/13-6/30/14	0.496	0.551	0.551	1,177,491	648,213
7/1/14-6/30/15	0.498	0.554	0.554	1,209,774	669,981
Total				12,255,682	6,595,727
7/1/15-6/30/16 at retention \$2,000,000			0.557	1,233,970	687,481

SELECTED LOSS & ALAE COST AT THE 7/1/14-6/30/15 LEVEL

Selected loss cost - Limited to \$250,000 (from Exhibit 3, Sheet 2)	0.396
Indicated loss cost - Limited to \$1,000,000 (from Exhibit 3, Sheet 3)	0.492
Increased limits factor from \$250K to \$1M *	1.262
Indicated loss cost - Limited to \$1,000,000 using industry \$250K to \$1M ILF	0.500
Selected loss cost - Limited to \$1,000,000	0.498
Indicated loss cost - Limited to \$2,000,000 (from Exhibit 3, Sheet 4)	0.512
Increased limits factor from \$1M to \$2M *	1.111
Indicated loss cost - Limited to \$2,000,000 using industry \$1M to \$2M ILF	0.554
Selected loss cost - Limited to \$2,000,000	0.554

Notes:

Columns (1) and (2) are the selected fiscal year 7/1/14-6/30/15 loss costs, detrended at annual rates of 0.40% and 0.60% at retentions \$1M and \$2M, respectively.

Column (3) is the selected fiscal year loss cost at the respective historical retention.

Column (4) provided by City of Virginia Beach.

Column (5) equals Column (3) x Column (4).

* Increased limits factors based on industry information.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015

Loss Cost Method, Loss & ALAE Limited to \$250,000

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Revenue (000's) (3)	Adjustment to FY2015 Exposure (4)	Adjusted Revenue (000's) (3) x (4) (5)	Indicated Loss Cost (6)	Trended to FY2015 Loss Cost (7)
7/1/04-6/30/05	333,698	1.000	951,817	1.000	951,817	0.351	0.351
7/1/05-6/30/06	517,284	1.000	985,307	1.000	985,307	0.525	0.525
7/1/06-6/30/07	421,983	1.000	1,088,153	1.000	1,088,153	0.388	0.388
7/1/07-6/30/08	621,436	1.000	1,140,564	1.000	1,140,564	0.545	0.545
7/1/08-6/30/09	652,001	1.000	1,137,964	1.000	1,137,964	0.573	0.573
7/1/09-6/30/10	753,018	1.000	1,139,279	1.000	1,139,279	0.661	0.661
7/1/10-6/30/11	474,350	1.000	1,125,705	1.000	1,125,705	0.421	0.421
7/1/11-6/30/12	435,132	1.000	1,130,045	1.000	1,130,045	0.385	0.385
7/1/12-6/30/13	339,501	1.000	1,169,584	1.000	1,169,584	0.290	0.290
7/1/13-6/30/14	505,648	1.000	1,177,491	1.000	1,177,491	0.429	0.429
7/1/14-6/30/15	364,429	1.000	1,209,774	1.000	1,209,774	0.301	0.301
Total	5,418,479		12,255,682		12,255,682		

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	0.457
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14 excluding extremes:	0.452
Weighted average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	0.458
Weighted average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14:	0.471
Weighted average of fiscal years 7/1/10-6/30/11 through 7/1/13-6/30/14:	0.381
Selected 7/1/14-6/30/15 loss & ALAE cost:	0.396

Notes:

- Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgement.
- Column (2) not used for this line of business.
- Column (3) provided by City of Virginia Beach.
- Column (4) not used in this study.
- Column (6) equals Column (1) x Column (2) / Column (5).
- Column (7) equals Column (6) x the selected loss cost trend of 0.00%.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015

Loss Cost Method, Loss & ALAE Limited to \$1,000,000

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Revenue (000's) (3)	Adjustment to FY2015 Exposure (4)	Adjusted Revenue (000's) (3) x (4) (5)	Indicated Loss Cost (6)	Trended to FY2015 Loss Cost (7)
7/1/04-6/30/05	333,698	1.000	951,817	1.000	951,817	0.351	0.365
7/1/05-6/30/06	517,284	1.000	985,307	1.000	985,307	0.525	0.544
7/1/06-6/30/07	421,983	1.000	1,088,153	1.000	1,088,153	0.388	0.400
7/1/07-6/30/08	1,310,079	1.000	1,140,564	1.000	1,140,564	1.149	1.181
7/1/08-6/30/09	897,537	1.000	1,137,964	1.000	1,137,964	0.789	0.808
7/1/09-6/30/10	964,844	1.000	1,139,279	1.000	1,139,279	0.847	0.864
7/1/10-6/30/11	474,350	1.000	1,125,705	1.000	1,125,705	0.421	0.428
7/1/11-6/30/12	435,132	1.000	1,130,045	1.000	1,130,045	0.385	0.390
7/1/12-6/30/13	362,722	1.000	1,169,584	1.000	1,169,584	0.310	0.313
7/1/13-6/30/14	562,742	1.000	1,177,491	1.000	1,177,491	0.478	0.480
7/1/14-6/30/15	459,655	1.000	1,209,774	1.000	1,209,774	0.380	0.380
Total	6,740,024		12,255,682		12,255,682		

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	0.577
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14 excluding extremes:	0.535
Weighted average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	0.581
Weighted average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14:	0.636
Weighted average of fiscal years 7/1/10-6/30/11 through 7/1/13-6/30/14:	0.403
Indicated 7/1/14-6/30/15 loss & ALAE cost:	0.492

Notes:

- Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgement.
- Column (2) not used for this line of business.
- Column (3) provided by City of Virginia Beach.
- Column (4) not used in this study.
- Column (6) equals Column (1) x Column (2) / Column (5).
- Column (7) equals Column (6) x the selected loss cost trend of 0.40%.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015

Loss Cost Method, Loss & ALAE Limited to \$2,000,000

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Revenue (000's) (3)	Adjustment to FY2015 Exposure (4)	Adjusted Revenue (000's) (3) x (4) (5)	Indicated Loss Cost (6)	Trended to FY2015 Loss Cost (7)
7/1/04-6/30/05	333,698	1.000	951,817	1.000	951,817	0.351	0.372
7/1/05-6/30/06	517,284	1.000	985,307	1.000	985,307	0.525	0.554
7/1/06-6/30/07	421,983	1.000	1,088,153	1.000	1,088,153	0.388	0.407
7/1/07-6/30/08	1,310,079	1.000	1,140,564	1.000	1,140,564	1.149	1.198
7/1/08-6/30/09	897,537	1.000	1,137,964	1.000	1,137,964	0.789	0.818
7/1/09-6/30/10	964,844	1.000	1,139,279	1.000	1,139,279	0.847	0.873
7/1/10-6/30/11	474,350	1.000	1,125,705	1.000	1,125,705	0.421	0.432
7/1/11-6/30/12	435,132	1.000	1,130,045	1.000	1,130,045	0.385	0.392
7/1/12-6/30/13	393,905	1.000	1,169,584	1.000	1,169,584	0.337	0.341
7/1/13-6/30/14	635,564	1.000	1,177,491	1.000	1,177,491	0.540	0.543
7/1/14-6/30/15	549,675	1.000	1,209,774	1.000	1,209,774	0.454	0.454
Total	6,934,049		12,255,682		12,255,682		

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	0.593
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14 excluding extremes:	0.549
Weighted average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	0.598
Weighted average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14:	0.655
Weighted average of fiscal years 7/1/10-6/30/11 through 7/1/13-6/30/14:	0.427
Indicated 7/1/14-6/30/15 loss & ALAE cost:	0.512

Notes:

- Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgement.
- Column (2) not used for this line of business.
- Column (3) provided by City of Virginia Beach.
- Column (4) not used in this study.
- Column (6) equals Column (1) x Column (2) / Column (5).
- Column (7) equals Column (6) x the selected loss cost trend of 0.60%.

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 General Liability
 Data as of June 30, 2015
 Loss & ALAE Limited to \$250,000

Average Severity Method

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Selected Ultimate Claim Counts (3)	Indicated Average Severity (4)	Trended to FY2015 Average Severity (5)	Fitted Severity (6)	Estimated Ultimate Loss & ALAE (3) x (6) (7)	Indicated Loss & ALAE Cost (8)
7/1/04-6/30/05	333,698	1.000	210	1,589	1,589	2,887	606,320	0.637
7/1/05-6/30/06	517,284	1.000	178	2,906	2,906	2,887	513,928	0.522
7/1/06-6/30/07	421,983	1.000	189	2,233	2,233	2,887	545,688	0.501
7/1/07-6/30/08	621,436	1.000	147	4,227	4,227	2,887	424,424	0.372
7/1/08-6/30/09	652,001	1.000	160	4,075	4,075	2,887	461,958	0.406
7/1/09-6/30/10	753,018	1.000	171	4,404	4,404	2,887	493,717	0.433
7/1/10-6/30/11	474,350	1.000	188	2,523	2,523	2,887	542,800	0.482
7/1/11-6/30/12	435,132	1.000	143	3,043	3,043	2,887	412,875	0.365
7/1/12-6/30/13	339,501	1.000	141	2,409	2,409	2,887	406,919	0.348
7/1/13-6/30/14	505,648	1.000	160	3,166	3,166	2,887	461,074	0.392
7/1/14-6/30/15	364,429	1.000	179	2,040	2,040	2,887	515,747	0.426
Total	5,418,479		1,865				5,385,448	

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

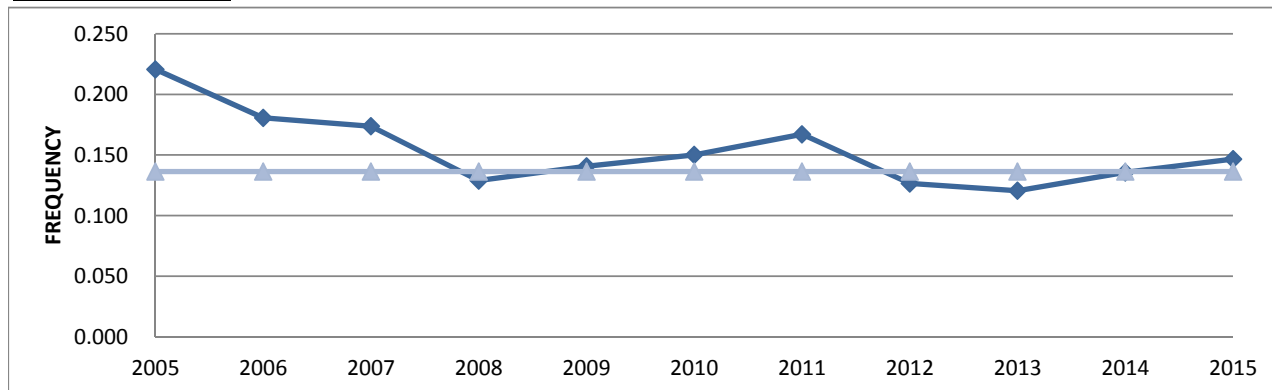
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	3,058
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14 excluding extremes:	3,073
Weighted average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	2,997
Weighted average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14:	3,408
Weighted average of fiscal years 7/1/10-6/30/11 through 7/1/13-6/30/14:	2,778
Selected 7/1/14-6/30/15 severity:	2,887

Notes:

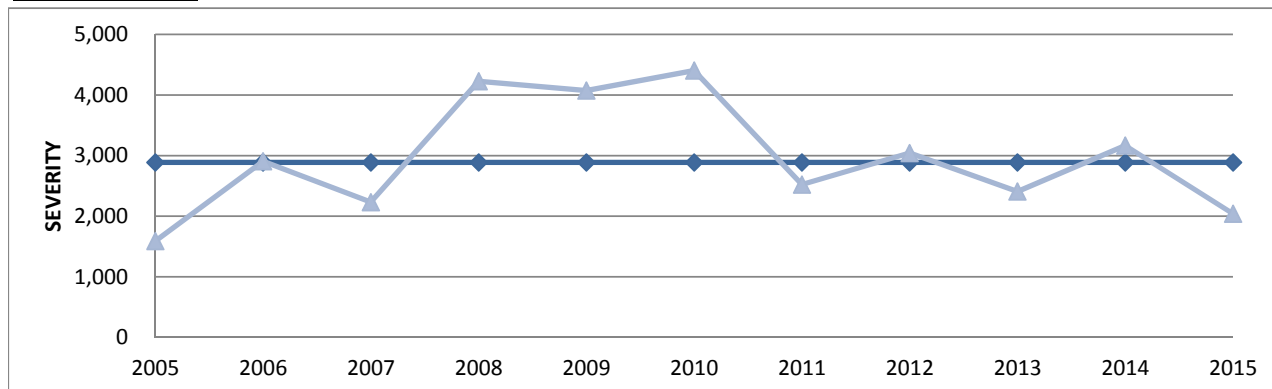
- Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgment.
- Column (2) not used for this line of business.
- Column (3) is from Exhibit 4, Sheet 1, Column (3).
- Column (4) equals Column (1) x Column (2) / Column (3).
- Column (5) equals Column (4) x the selected severity trend of 0.00%.
- Column (6) for all fiscal years is the selected fiscal year 7/1/14-6/30/15 severity, detrended at an annual rate of 0.00%, and adjusted to the appropriate benefit level (if applicable).
- Column (8) equals Column (7) / Revenue (000's).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015

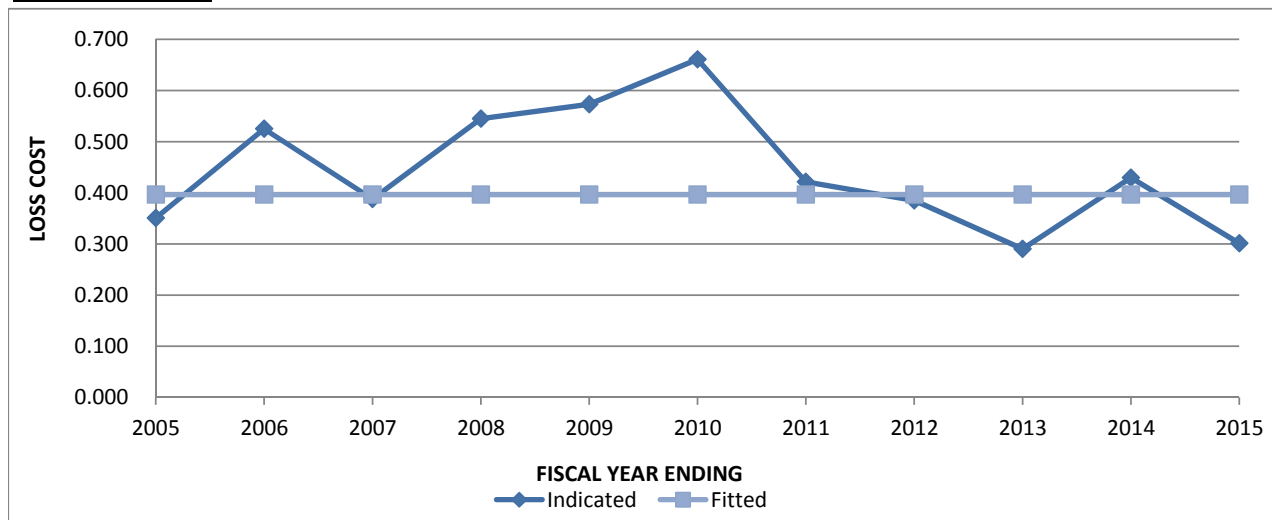
FREQUENCY TREND



SEVERITY TREND



LOSS COST TREND



Notes:

The selected frequency trend is 0.00%.

The selected severity trend is 0.00%.

The selected loss cost trend is 0.00%.

The severity and loss cost trends (for both Indicated and Fitted lines) are shown at a \$250,000 per occurrence limit.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015

Estimate of Ultimate Claim Counts

Fiscal Years	Reported Claim Development Method (1)	Reported Bornhuetter- Ferguson Method (2)	Selected Ultimate Claim Counts (3)	Implied Frequency (4)	Closed Claim Counts as of 6/30/15 (5)	Implied Open and IBNR Claim Counts (3) - (5) (6)
7/1/04-6/30/05	210	210	210	0.221	210	0
7/1/05-6/30/06	178	178	178	0.181	177	1
7/1/06-6/30/07	189	189	189	0.174	188	1
7/1/07-6/30/08	147	147	147	0.129	145	2
7/1/08-6/30/09	160	160	160	0.141	160	0
7/1/09-6/30/10	171	171	171	0.150	169	2
7/1/10-6/30/11	188	188	188	0.167	186	2
7/1/11-6/30/12	143	143	143	0.127	142	1
7/1/12-6/30/13	141	141	141	0.121	137	4
7/1/13-6/30/14	160	160	160	0.136	156	4
7/1/14-6/30/15	177	179	179	0.148	108	71
Total	1,864	1,866	1,865	0.152	1,778	87

Notes:

Columns (1) and (2) are from Exhibit 4, Sheet 2, Columns (3) and (8), respectively.
Column (3) based on Columns (1) and (2) and actuarial judgment.
Column (4) equals Column (3) / Revenue (000's) x 1,000.
Column (5) provided by City of Virginia Beach.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015

Reported Claim Methods, excluding Claims Closed without Payment

Fiscal Years	Reported Claim Counts as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Claim Counts (1) x (2) (3)	Revenue (000's) (4)	Indicated Frequency (3) / (4) x 1,000 (5)	Trended to FY2015 Frequency (5) x trend (6)	Fitted Frequency (7)	Reported Bornhuetter-Ferguson Method (8)
7/1/04-6/30/05	210	1.000	210	951,817	0.221	0.221	0.136	210
7/1/05-6/30/06	178	1.000	178	985,307	0.181	0.181	0.136	178
7/1/06-6/30/07	189	1.000	189	1,088,153	0.174	0.174	0.136	189
7/1/07-6/30/08	147	1.000	147	1,140,564	0.129	0.129	0.136	147
7/1/08-6/30/09	160	1.000	160	1,137,964	0.141	0.141	0.136	160
7/1/09-6/30/10	171	1.000	171	1,139,279	0.150	0.150	0.136	171
7/1/10-6/30/11	188	1.000	188	1,125,705	0.167	0.167	0.136	188
7/1/11-6/30/12	143	1.000	143	1,130,045	0.127	0.127	0.136	143
7/1/12-6/30/13	142	0.993	141	1,169,584	0.121	0.121	0.136	141
7/1/13-6/30/14	161	0.992	160	1,177,491	0.136	0.136	0.136	160
7/1/14-6/30/15	202	0.878	177	1,209,774	0.147	0.147	0.136	179
Total	1,891		1,864	12,255,682				1,866

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	0.154
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14 excluding extremes:	0.150
Average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14 excluding extremes:	0.136
Weighted average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14:	0.138
Weighted average of fiscal years 7/1/11-6/30/12 through 7/1/13-6/30/14:	0.128
Selected 7/1/14-6/30/15 frequency:	0.136

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are derived from Exhibit 6, Sheet 7.

The selected frequency trend used in Column (6) is 0.00%.

Column (7) for all fiscal years is the selected fiscal year 7/1/14-6/30/15 frequency, detrended at an annual rate of 0.00%.

Column (8) equals Column (1) + Column (4) x Column (7) x $[1.0 - 1.0 / \text{Column (2)}] / 1,000$.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015

Summary of Loss Data Valued as of June 30, 2015

Fiscal Years	Retention	Reported* Claim Counts (1)	Open Claim Counts (2)	Unlimited Loss & ALAE			Loss & ALAE Excess of \$250K		Loss & ALAE Excess of \$1M		Loss & ALAE Excess of \$2M	
				Paid (3)	Case Reserves (4)	Reported (5)	Paid (6)	Reported (7)	Paid (8)	Reported (9)	Paid (10)	Reported (11)
7/1/04-6/30/05	2,000,000	210	0	333,698	0	333,698	0	0	0	0	0	0
7/1/05-6/30/06	2,000,000	178	1	509,266	4,005	513,271	0	0	0	0	0	0
7/1/06-6/30/07	2,000,000	189	1	371,899	25,000	396,899	0	0	0	0	0	0
7/1/07-6/30/08	2,000,000	147	2	1,305,918	1,100	1,307,018	688,643	688,643	0	0	0	0
7/1/08-6/30/09	2,000,000	160	0	897,537	0	897,537	245,535	245,535	0	0	0	0
7/1/09-6/30/10	2,000,000	171	2	950,146	2,665	952,811	211,826	211,826	0	0	0	0
7/1/10-6/30/11	2,000,000	188	2	457,092	600	457,692	0	0	0	0	0	0
7/1/11-6/30/12	2,000,000	143	1	244,202	155,657	399,858	0	0	0	0	0	0
7/1/12-6/30/13	2,000,000	142	5	271,111	30,533	301,644	0	0	0	0	0	0
7/1/13-6/30/14	2,000,000	161	5	336,186	38,200	374,386	0	0	0	0	0	0
7/1/14-6/30/15	2,000,000	202	94	135,676	44,209	179,885	0	0	0	0	0	0
Total		1,891	113	5,812,732	301,968	6,114,700	1,146,005	1,146,005	0	0	0	0

Fiscal Years	Loss & ALAE Limited to \$250,000			Loss & ALAE Limited to \$1,000,000			Loss & ALAE Limited to \$2,000,000			Loss & ALAE Limited to Retention		
	Paid (12)	Case Reserves (13)	Reported (14)	Paid (15)	Case Reserves (16)	Reported (17)	Paid (18)	Case Reserves (19)	Reported (20)	Paid (21)	Case Reserves (22)	Reported (23)
7/1/04-6/30/05	333,698	0	333,698	333,698	0	333,698	333,698	0	333,698	333,698	0	333,698
7/1/05-6/30/06	509,266	4,005	513,271	509,266	4,005	513,271	509,266	4,005	513,271	509,266	4,005	513,271
7/1/06-6/30/07	371,899	25,000	396,899	371,899	25,000	396,899	371,899	25,000	396,899	371,899	25,000	396,899
7/1/07-6/30/08	617,275	1,100	618,375	1,305,918	1,100	1,307,018	1,305,918	1,100	1,307,018	1,305,918	1,100	1,307,018
7/1/08-6/30/09	652,001	0	652,001	897,537	0	897,537	897,537	0	897,537	897,537	0	897,537
7/1/09-6/30/10	738,320	2,665	740,985	950,146	2,665	952,811	950,146	2,665	952,811	950,146	2,665	952,811
7/1/10-6/30/11	457,092	600	457,692	457,092	600	457,692	457,092	600	457,692	457,092	600	457,692
7/1/11-6/30/12	244,202	155,657	399,858	244,202	155,657	399,858	244,202	155,657	399,858	244,202	155,657	399,858
7/1/12-6/30/13	271,111	30,533	301,644	271,111	30,533	301,644	271,111	30,533	301,644	271,111	30,533	301,644
7/1/13-6/30/14	336,186	38,200	374,386	336,186	38,200	374,386	336,186	38,200	374,386	336,186	38,200	374,386
7/1/14-6/30/15	135,676	44,209	179,885	135,676	44,209	179,885	135,676	44,209	179,885	135,676	44,209	179,885
Total	4,666,727	301,968	4,968,695	5,812,732	301,968	6,114,700	5,812,732	301,968	6,114,700	5,812,732	301,968	6,114,700

Notes:
Columns (1) through (23) provided by City of Virginia Beach.
* Reported claim count excludes claims closed without payment.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Detail of Large Losses with Combined Loss & ALAE Greater than \$100,000

Fiscal Year	Date of Loss	Claim Number	Claim Status	Unlimited Loss & ALAE		Retention	Loss & ALAE Limited to Retention	
				Paid	Reported		Paid	Reported
2006	9/14/2005	GL076703	Closed	173,268	173,268	2,000,000	173,268	173,268
2008	12/28/2007	GL077575	Closed	938,643	938,643	2,000,000	938,643	938,643
2009	1/1/2009	GL081830	Closed	495,535	495,535	2,000,000	495,535	495,535
2010	2/6/2010	GL079173	Closed	461,826	461,826	2,000,000	461,826	461,826
2011	7/11/2010	GL079476	Closed	129,246	129,246	2,000,000	129,246	129,246
2012	9/1/2011	GL080693	Open	6,844	162,500	2,000,000	6,844	162,500

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of April 30, 2015
Reported Loss & ALAE Limited to \$250,000

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-6/30/92								228,802	228,802	228,802	228,802	228,802	228,802	228,802	228,802
5/1/92-6/30/93							421,515	421,719	423,703	423,703	423,703	423,703	423,703	423,703	423,703
5/1/93-6/30/94						593,582	639,782	636,544	636,544	636,544	636,544	636,544	636,544	636,544	636,544
5/1/94-6/30/95					476,559	477,559	476,559	476,559	476,559	476,559	476,559	476,559	476,559	476,559	476,559
5/1/95-6/30/96				756,879	791,958	791,458	791,458	791,458	791,458	791,458	791,458	791,458	791,458	791,458	791,458
5/1/96-6/30/97			798,171	914,316	835,865	870,865	873,665	821,744	821,444	821,444	821,444	821,444	821,444	821,444	821,444
5/1/97-6/30/98		666,430	1,082,788	1,076,631	954,338	954,338	954,338	954,338	954,338	954,338	954,338	954,338	954,338	954,338	954,338
5/1/98-6/30/99	318,873	1,128,967	1,462,730	1,443,561	1,235,813	1,264,347	1,253,350	1,191,656	1,196,156	1,196,156	1,196,156	1,196,156	1,196,156	1,196,156	1,196,156
5/1/99-6/30/00	245,885	541,495	577,757	589,013	562,570	563,676	562,775	562,775	562,775	562,775	562,775	562,775	562,775	562,775	558,918
5/1/00-6/30/01	199,030	372,474	396,916	356,059	351,759	344,659	344,659	344,659	344,659	344,759	344,659	344,659	344,659	344,659	344,659
5/1/01-6/30/02	398,646	538,110	613,054	747,179	908,230	908,230	874,409	874,409	874,409	874,409	874,409	874,409	874,409	874,409	874,409
5/1/02-6/30/03	357,054	393,861	466,938	529,047	505,308	465,166	465,166	465,166	465,166	465,166	465,166	468,728	468,728	468,728	
5/1/03-6/30/04	477,272	788,814	943,917	806,435	816,373	805,032	805,032	805,032	805,032	805,032	805,032	805,032	805,032	805,032	
5/1/04-6/30/05	397,670	439,051	425,891	425,785	481,668	484,097	505,256	505,256	505,256	479,256	479,256				
5/1/05-6/30/06	238,921	249,030	354,748	501,979	425,192	423,352	423,352	423,352	423,352	423,352					
5/1/06-6/30/07	256,904	398,147	401,684	414,388	414,420	454,420	454,420	454,420	454,420						
5/1/07-6/30/08	494,759	625,625	636,175	661,014	590,531	590,531	590,531	590,531							
5/1/08-6/30/09	316,708	592,611	676,589	513,371	462,045	712,045									
5/1/09-6/30/10	430,004	423,169	458,269	601,166	570,766	584,422									
5/1/10-6/30/11	212,993	333,949	426,825	503,562	502,462										
5/1/11-6/30/12	276,015	301,097	457,230	457,230											
5/1/12-6/30/13	233,591	284,263	279,388												
5/1/13-6/30/14	224,089	355,517													
5/1/14-6/30/15	181,972														
Accident Period	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-6/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-6/30/93						1.078	0.995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-6/30/94					1.002	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-6/30/95						1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-6/30/96				1.046	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-6/30/97			1.146	0.914	1.042	1.003	0.941	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-6/30/98		1.625	0.994	0.886	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-6/30/99	3.540	1.296	0.987	0.856	1.023	0.991	0.951	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-6/30/00	2.202	1.067	1.019	0.955	1.002	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.993
5/1/00-6/30/01	1.871	1.066	0.897	0.988	0.980	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-6/30/02	1.350	1.139	1.219	1.216	1.000	0.963	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/02-6/30/03	1.103	1.186	1.133	0.955	0.921	1.000	1.000	1.000	1.000	1.000	1.008	1.000	1.000		
5/1/03-6/30/04	1.653	1.197	0.854	1.012	0.986	1.000	1.000	1.000	1.000	1.000	1.000				
5/1/04-6/30/05	1.104	0.970	1.000	1.131	1.005	1.044	1.000	1.000	0.949	1.000					
5/1/05-6/30/06	1.042	1.425	1.415	0.847	0.996	1.000	1.000	1.000	1.000						
5/1/06-6/30/07	1.550	1.009	1.032	1.000	1.097	1.000	1.000	1.000							
5/1/07-6/30/08	1.265	1.017	1.039	0.893	1.000	1.000	1.000								
5/1/08-6/30/09	1.871	1.142	0.759	0.900	1.541	1.000									
5/1/09-6/30/10	0.984	1.083	1.312	0.949	1.024										
5/1/10-6/30/11	1.568	1.278	1.180	0.998											
5/1/11-6/30/12	1.091	1.519	1.000												
5/1/12-6/30/13	1.217	0.983													
5/1/13-6/30/14	1.587														
All Years Average	1.562	1.187	1.062	0.972	1.039	1.005	0.993	1.001	0.997	1.000	1.001	1.000	1.000	0.999	
All Years Weighted	1.529	1.196	1.035	0.960	1.030	1.002	0.989	1.001	0.997	1.000	1.000	1.000	1.000	0.999	
5 Years Weighted	1.233	1.188	1.031	0.943	1.123	1.008	1.000	1.000	0.992	1.000	1.001	1.000	1.000	0.999	
3 Years Weighted	1.282	1.266	1.164	0.949	1.162	1.000	1.000	1.000	0.985	1.000	1.002	1.000	1.000	0.998	
All Years excl Hi-Lo	1.462	1.172	1.058	0.963	1.011	1.002	0.996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7 Years excl Hi-Lo	1.345	1.106	1.112	0.948	1.024	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Industry	1.749	1.345	1.169	1.085	1.043	1.026	1.015	1.013	1.009	1.008	1.007	1.005	1.004	1.004	1.016
Prior (4/30/13)	1.509	1.114	1.047	1.008	1.004	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	1.500	1.200	1.100	1.010	1.007	1.003	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000
Age to Ultimate	2.026	1.351	1.126	1.023	1.013	1.006	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000

Notes:
Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of April 30, 2015
Paid Loss & ALAE Limited to \$250,000

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-6/30/92								228,802	228,802	228,802	228,802	228,802	228,802	228,802	228,802
5/1/92-6/30/93								421,515	421,719	423,703	423,703	423,703	423,703	423,703	423,703
5/1/93-6/30/94						593,582		636,482	636,544	636,544	636,544	636,544	636,544	636,544	636,544
5/1/94-6/30/95					476,559	476,559	476,559	476,559	476,559	476,559	476,559	476,559	476,559	476,559	476,559
5/1/95-6/30/96				755,548	819,886	820,480	821,444	821,444	821,444	821,444	821,444	821,444	821,444	821,444	821,444
5/1/96-6/30/97			797,435	818,651	819,886	820,480	821,444	821,444	821,444	821,444	821,444	821,444	821,444	821,444	821,444
5/1/97-6/30/98		658,329	946,953	949,390	954,338	954,338	954,338	954,338	954,338	954,338	954,338	954,338	954,338	954,338	954,338
5/1/98-6/30/99	308,226	708,064	841,112	1,123,728	1,152,817	1,178,551	1,190,814	1,191,656	1,196,156	1,196,156	1,196,156	1,196,156	1,196,156	1,196,156	1,196,156
5/1/99-6/30/00	211,144	268,696	528,255	554,167	558,884	562,775	562,775	562,775	562,775	562,775	562,775	562,775	562,775	562,775	562,775
5/1/00-6/30/01	150,870	319,151	339,168	344,446	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659
5/1/01-6/30/02	289,112	506,674	600,761	631,574	631,574	872,405	874,409	874,409	874,409	874,409	874,409	874,409	874,409	874,409	874,409
5/1/02-6/30/03	295,343	335,573	381,919	463,905	465,166	465,166	465,166	465,166	465,166	465,166	465,166	468,728	468,728		
5/1/03-6/30/04	221,485	769,539	781,185	805,335	805,335	805,335	805,335	805,335	805,335	805,335	805,335	805,335	805,335		
5/1/04-6/30/05	314,371	357,772	412,821	417,020	427,718	430,606	479,256	479,256	479,256	479,256	479,256	479,256			
5/1/05-6/30/06	207,344	242,353	332,817	422,407	422,352	422,352	422,352	422,352	422,352	422,352	422,352				
5/1/06-6/30/07	207,764	354,732	383,514	402,673	405,292	417,823	424,058	424,058	424,058						
5/1/07-6/30/08	267,301	531,637	584,269	585,884	586,430	590,531	590,531	590,531							
5/1/08-6/30/09	255,508	320,702	397,954	436,971	461,045	508,749	711,045								
5/1/09-6/30/10	220,418	310,837	311,696	563,101	563,101	581,557									
5/1/10-6/30/11	183,704	223,281	280,309	496,294											
5/1/11-6/30/12	219,415	300,447	300,874	300,974											
5/1/12-6/30/13	194,509	260,847	260,847												
5/1/13-6/30/14	194,958	338,017													
5/1/14-6/30/15	136,747														
Accident Period	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-6/30/92								1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5/1/92-6/30/93							1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5/1/93-6/30/94						1,072	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5/1/94-6/30/95					1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5/1/95-6/30/96				1,048	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5/1/96-6/30/97			1,027	1,002	1,001	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5/1/97-6/30/98		1,438	1,003	1,005	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5/1/98-6/30/99	2,297	1,188	1,336	1,026	1,022	1,010	1,001	1,004	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5/1/99-6/30/00	1,273	1,966	1,049	1,009	1,007	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0.993
5/1/00-6/30/01	2,115	1,063	1,016	1,001	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5/1/01-6/30/02	1,753	1,186	1,051	1,381	1,002	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5/1/02-6/30/03	1,136	1,138	1,215	1,003	1,000	1,000	1,000	1,000	1,000	1,000	1,008	1,000			
5/1/03-6/30/04	3,474	1,015	1,031	1,000	0.999	1,000	1,000	1,000	1,000	1,000	1,000				
5/1/04-6/30/05	1,138	1,154	1,010	1,026	1,007	1,113	1,000	1,000	1,000	1,000					
5/1/05-6/30/06	1,169	1,373	1,269	1,000	1,000	1,000	1,000	1,000	1,000						
5/1/06-6/30/07	1,707	1,081	1,050	1,007	1,031	1,015	1,000	1,000							
5/1/07-6/30/08	1,989	1,099	1,003	1,001	1,007	1,000	1,000								
5/1/08-6/30/09	1,255	1,241	1,098	1,055	1,103	1,398									
5/1/09-6/30/10	1,410	1,003	1,807	1,000	1,033										
5/1/10-6/30/11	1,215	1,255	1,771	1,000											
5/1/11-6/30/12	1,369	1,001	1,000												
5/1/12-6/30/13	1,341	1,000													
5/1/13-6/30/14	1,734														
All Years Average	1.649	1.200	1.171	1.035	1.013	1.038	1.000	1.001	1.000	1.000	1.001	1.000	1.000	1.000	0.999
All Years Weighted	1.643	1.188	1.133	1.036	1.012	1.031	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	0.999
5 Years Weighted	1.415	1.096	1.271	1.011	1.034	1.109	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	0.999
3 Years Weighted	1.477	1.073	1.524	1.016	1.044	1.137	1.000	1.000	1.000	1.000	1.002	1.000	1.000	1.000	0.998
All Years excl Hi-Lo	1.555	1.160	1.138	1.013	1.008	1.015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7 Years excl Hi-Lo	1.422	1.085	1.238	1.007	1.015	1.026	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Industry	2.520	1.668	1.348	1.196	1.109	1.065	1.039	1.025	1.018	1.015	1.013	1.012	1.010	1.007	1.039
Prior (4/30/13)	1.620	1.183	1.084	1.028	1.010	1.006	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	1.600	1.250	1.100	1.040	1.020	1.010	1.004	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000
Age to Ultimate	2.374	1.484	1.187	1.079	1.037	1.017	1.007	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000

Notes:
Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of April 30, 2015
Reported Loss & ALAE Limited to \$1,000,000

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-6/30/92								228,802	228,802	228,802	228,802	228,802	228,802	228,802	228,802
5/1/92-6/30/93								421,515	421,719	423,703	423,703	423,703	423,703	423,703	423,703
5/1/93-6/30/94						698,289		752,951	752,951	752,951	752,951	752,951	752,951	752,951	752,951
5/1/94-6/30/95					1,038,112	1,039,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112
5/1/95-6/30/96				952,915	987,993	987,493	987,493	987,493	987,493	987,493	987,493	987,493	987,493	987,493	987,493
5/1/96-6/30/97			951,862	1,068,007	989,556	1,024,556	1,027,356	975,435	975,135	975,135	975,135	975,135	975,135	975,135	975,135
5/1/97-6/30/98		1,416,430	2,582,788	2,576,631	2,454,338	2,454,338	2,454,338	2,454,338	2,454,338	2,454,338	2,454,338	2,454,338	2,454,338	2,454,338	2,454,338
5/1/98-6/30/99	318,873	1,190,907	1,518,170	1,499,001	1,291,253	1,319,787	1,308,790	1,247,096	1,251,596	1,251,596	1,251,596	1,251,596	1,251,596	1,251,596	1,251,596
5/1/99-6/30/00	245,885	541,495	989,757	992,485	966,042	967,148	966,247	966,247	966,247	966,247	966,247	966,247	966,247	966,247	966,247
5/1/00-6/30/01	199,030	372,474	396,916	356,059	351,759	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659
5/1/01-6/30/02	398,646	538,110	613,054	747,179	911,277	877,456	877,456	877,456	877,456	877,456	877,456	877,456	877,456	877,456	877,456
5/1/02-6/30/03	357,054	393,861	466,938	529,047	505,308	465,166	465,166	465,166	465,166	465,166	465,166	468,728	468,728		
5/1/03-6/30/04	612,272	1,577,215	1,608,973	1,471,490	1,481,429	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087		
5/1/04-6/30/05	397,670	439,051	425,891	425,785	481,668	484,097	505,256	505,256	505,256	479,256	479,256				
5/1/05-6/30/06	238,921	249,030	354,748	1,051,979	425,192	423,352	423,352	423,352	423,352	423,352					
5/1/06-6/30/07	256,904	398,147	401,684	414,388	414,420	454,420	454,420	454,420							
5/1/07-6/30/08	494,759	1,375,625	1,386,175	1,354,657	1,284,174	1,279,174	1,279,174								
5/1/08-6/30/09	316,708	942,611	1,026,589	513,371	462,045	862,045	1,462,045								
5/1/09-6/30/10	430,004	423,169	458,269	812,992	782,592	796,248									
5/1/10-6/30/11	212,993	333,949	426,825	503,562	502,462										
5/1/11-6/30/12	276,015	301,097	457,230	457,230											
5/1/12-6/30/13	233,591	284,263	279,388												
5/1/13-6/30/14	224,089	355,517													
5/1/14-6/30/15	181,972														
Accident Period	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-6/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-6/30/93								1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-6/30/94						1.087	0.992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-6/30/95					1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-6/30/96				1.037	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-6/30/97			1.122	0.927	1.035	1.003	0.949	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-6/30/98		1.823	0.998	0.953	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-6/30/99	3.735	1.275	0.987	0.861	1.022	0.992	0.953	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-6/30/00	2.202	1.828	1.003	0.973	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.996
5/1/00-6/30/01	1.871	1.066	0.897	0.988	0.980	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-6/30/02	1.350	1.139	1.219	1.220	1.000	0.963	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/02-6/30/03	1.103	1.186	1.133	0.955	0.921	1.000	1.000	1.000	1.000	1.000	1.008	1.000			
5/1/03-6/30/04	2.576	1.020	0.915	1.007	0.992	1.000	1.000	1.000	1.000	1.000	1.000				
5/1/04-6/30/05	1.104	0.970	1.000	1.131	1.005	1.044	1.000	1.000	0.949	1.000					
5/1/05-6/30/06	1.042	1.425	2.965	0.404	0.996	1.000	1.000	1.000	1.000						
5/1/06-6/30/07	1.550	1.009	1.032	1.000	1.097	1.000	1.000	1.000							
5/1/07-6/30/08	2.780	1.008	0.977	0.948	0.996	1.000	1.000								
5/1/08-6/30/09	2.976	1.089	0.500	0.900	1.866	1.696									
5/1/09-6/30/10	0.984	1.083	1.774	0.963	1.017										
5/1/10-6/30/11	1.568	1.278	1.180	0.998											
5/1/11-6/30/12	1.091	1.519	1.000												
5/1/12-6/30/13	1.217	0.983													
5/1/13-6/30/14	1.587														
All Years Average	1.796	1.231	1.169	0.954	1.058	1.049	0.993	1.001	0.997	1.000	1.001	1.000	1.000	1.000	1.000
All Years Weighted	1.864	1.243	1.050	0.936	1.031	1.042	0.992	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000
5 Years Weighted	1.233	1.159	0.970	0.957	1.133	1.177	1.000	1.000	0.993	1.000	1.001	1.000	1.000	1.000	0.999
3 Years Weighted	1.282	1.266	1.321	0.955	1.152	1.231	1.000	1.000	0.989	1.000	1.001	1.000	1.000	1.000	0.998
All Years excl Hi-Lo	1.716	1.207	1.088	0.974	1.010	1.009	0.996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7 Years excl Hi-Lo	1.649	1.093	1.193	0.962	1.022	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Industry	1.829	1.381	1.194	1.108	1.059	1.036	1.022	1.017	1.012	1.010	1.009	1.007	1.006	1.005	1.029
Prior (4/30/13)	1.880	1.119	1.076	1.010	1.005	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	1.700	1.250	1.150	1.025	1.010	1.005	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000
Age to Ultimate	2.555	1.503	1.202	1.046	1.020	1.010	1.005	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000

Notes:
Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 General Liability
 Data as of April 30, 2015
 Paid Loss & ALAE Limited to \$1,000,000

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-6/30/92								228.802	228.802	228.802	228.802	228.802	228.802	228.802	228.802
5/1/92-6/30/93							421.515	421.719	423.703	423.703	423.703	423.703	423.703	423.703	423.703
5/1/93-6/30/94						698.289	741.189	752.951	752.951	752.951	752.951	752.951	752.951	752.951	752.951
5/1/94-6/30/95					1,038.112	1,038.112	1,038.112	1,038.112	1,038.112	1,038.112	1,038.112	1,038.112	1,038.112	1,038.112	1,038.112
5/1/95-6/30/96				951.583	987.493	987.493	987.493	987.493	987.493	987.493	987.493	987.493	987.493	987.493	987.493
5/1/96-6/30/97			951.126	972.342	973.577	974.171	975.135	975.135	975.135	975.135	975.135	975.135	975.135	975.135	975.135
5/1/97-6/30/98		1,408.329	2,446.953	2,449.390	2,454.338	2,454.338	2,454.338	2,454.338	2,454.338	2,454.338	2,454.338	2,454.338	2,454.338	2,454.338	2,454.338
5/1/98-6/30/99	308.226	763.504	896.552	1,179.168	1,208.257	1,233.991	1,246.254	1,247.096	1,251.596	1,251.596	1,251.596	1,251.596	1,251.596	1,251.596	1,251.596
5/1/99-6/30/00	211.144	268.696	931.727	957.639	962.356	966.247	966.247	966.247	966.247	966.247	966.247	966.247	966.247	966.247	966.247
5/1/00-6/30/01	150.870	319.151	339.168	344.446	344.659	344.659	344.659	344.659	344.659	344.659	344.659	344.659	344.659	344.659	344.659
5/1/01-6/30/02	289.112	506.674	600.761	631.574	875.452	877.456	877.456	877.456	877.456	877.456	877.456	877.456	877.456	877.456	877.456
5/1/02-6/30/03	295.343	335.573	381.919	463.905	465.166	465.166	465.166	465.166	465.166	465.166	465.166	468.728	468.728		
5/1/03-6/30/04	221.485	1,414.695	1,446.241	1,470.390	1,470.587	1,470.587	1,470.587	1,470.587	1,470.587	1,470.587	1,470.587	1,470.587	1,470.587		
5/1/04-6/30/05	314.371	357.772	412.821	417.020	427.718	430.606	479.256	479.256	479.256	479.256	479.256	479.256	479.256		
5/1/05-6/30/06	207.344	242.353	332.817	422.407	422.352	422.352	422.352	422.352	422.352	422.352	422.352	422.352	422.352		
5/1/06-6/30/07	207.764	354.732	383.514	402.673	405.292	417.823	424.058	424.058	424.058						
5/1/07-6/30/08	267.301	1,219.476	1,272.912	1,274.527	1,275.073	1,279.174	1,279.174	1,279.174							
5/1/08-6/30/09	255.508	320.702	397.954	436.971	461.045	508.749	951.349								
5/1/09-6/30/10	220.418	310.837	311.696	774.927	774.927	793.383									
5/1/10-6/30/11	183.704	223.281	280.309	496.294											
5/1/11-6/30/12	219.415	300.447	300.874	300.974											
5/1/12-6/30/13	194.509	260.847													
5/1/13-6/30/14	194.958	338.017													
5/1/14-6/30/15	136.747														

Accident Period	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-6/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-6/30/93							1.061	1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-6/30/94					1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-6/30/95					1.038	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-6/30/96				1.038	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-6/30/97			1.022	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-6/30/98		1.737	1.001	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-6/30/99	2.477	1.174	1.315	1.025	1.021	1.010	1.001	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-6/30/00	1.273	3.468	1.028	1.005	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.996
5/1/00-6/30/01	2.115	1.063	1.016	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-6/30/02	1.753	1.186	1.051	1.386	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/02-6/30/03	1.136	1.138	1.215	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.008	1.000	1.000	1.000	1.000
5/1/03-6/30/04	6.387	1.022	1.017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/04-6/30/05	1.138	1.154	1.010	1.026	1.007	1.113	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/05-6/30/06	1.169	1.373	1.269	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/06-6/30/07	1.707	1.081	1.050	1.007	1.031	1.015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/07-6/30/08	4.562	1.044	1.001	1.000	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/08-6/30/09	1.255	1.241	1.098	1.055	1.103	1.870	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/09-6/30/10	1.410	1.003	2.486	1.000	1.024										
5/1/10-6/30/11	1.215	1.255	1.771	1.000											
5/1/11-6/30/12	1.369	1.001	1.000												
5/1/12-6/30/13	1.341	1.000													
5/1/13-6/30/14	1.734														
All Years Average	2.003	1.309	1.209	1.034	1.012	1.067	1.001	1.001	1.000	1.000	1.001	1.000	1.000	1.000	1.000
All Years Weighted	2.014	1.278	1.112	1.026	1.008	1.038	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Years Weighted	1.415	1.096	1.281	1.008	1.025	1.163	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	0.999
3 Years Weighted	1.477	1.073	1.761	1.014	1.028	1.203	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	0.998
All Years excl Hi-Lo	1.751	1.177	1.133	1.012	1.007	1.014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7 Years excl Hi-Lo	1.422	1.074	1.238	1.007	1.013	1.026	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Industry	2.638	1.711	1.371	1.210	1.120	1.071	1.042	1.028	1.020	1.017	1.014	1.012	1.011	1.009	1.053
Prior (4/30/13)	2.040	1.206	1.089	1.031	1.010	1.007	1.002	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000

Selected	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	1.900	1.300	1.200	1.050	1.030	1.015	1.005	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000
Age to Ultimate	3.286	1.730	1.330	1.109	1.056	1.025	1.010	1.005	1.003	1.002	1.001	1.000	1.000	1.000	1.000

Notes:
 Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of April 30, 2015
Reported Loss & ALAE Limited to \$2,000,000

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-6/30/92								228,802	228,802	228,802	228,802	228,802	228,802	228,802	228,802
5/1/92-6/30/93							421,515	421,719	423,703	423,703	423,703	423,703	423,703	423,703	423,703
5/1/93-6/30/94						698,289	758,836	752,951	752,951	752,951	752,951	752,951	752,951	752,951	752,951
5/1/94-6/30/95					1,038,112	1,039,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112
5/1/95-6/30/96				952,915	987,993	987,493	987,493	987,493	987,493	987,493	987,493	987,493	987,493	987,493	987,493
5/1/96-6/30/97			951,862	1,068,007	989,556	1,024,556	1,027,356	975,435	975,135	975,135	975,135	975,135	975,135	975,135	975,135
5/1/97-6/30/98		1,880,958	4,086,663	4,053,840	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717
5/1/98-6/30/99	318,873	1,190,907	1,518,170	1,499,001	1,291,253	1,319,787	1,308,790	1,247,096	1,251,596	1,251,596	1,251,596	1,251,596	1,251,596	1,251,596	1,251,596
5/1/99-6/30/00	245,885	541,495	989,757	992,485	966,042	967,148	966,247	966,247	966,247	966,247	966,247	966,247	966,247	966,247	966,247
5/1/00-6/30/01	199,030	372,474	396,916	356,059	351,759	344,659	344,659	344,659	344,659	344,759	344,659	344,659	344,659	344,659	344,659
5/1/01-6/30/02	398,646	538,110	613,054	747,179	911,277	911,277	877,456	877,456	877,456	877,456	877,456	877,456	877,456	877,456	877,456
5/1/02-6/30/03	357,054	393,861	466,938	529,047	505,308	465,166	465,166	465,166	465,166	465,166	465,166	468,728	468,728	468,728	468,728
5/1/03-6/30/04	612,272	1,689,095	1,608,973	1,471,490	1,481,429	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087
5/1/04-6/30/05	397,670	439,051	425,891	425,785	481,668	484,097	505,256	505,256	505,256	479,256	479,256	479,256	479,256	479,256	479,256
5/1/05-6/30/06	238,921	249,030	354,748	1,051,979	425,192	423,352	423,352	423,352	423,352	423,352	423,352	423,352	423,352	423,352	423,352
5/1/06-6/30/07	256,904	398,147	401,684	414,388	414,420	454,420	454,420	454,420	454,420	454,420	454,420	454,420	454,420	454,420	454,420
5/1/07-6/30/08	494,759	1,428,519	1,439,873	1,354,657	1,284,174	1,279,174	1,279,174	1,279,174	1,279,174						
5/1/08-6/30/09	316,708	942,611	1,026,589	513,371	462,045	462,045	1,662,045	1,662,045	1,662,045						
5/1/09-6/30/10	430,004	423,169	458,269	812,992	782,592	796,248									
5/1/10-6/30/11	212,993	333,949	426,825	503,562	502,462										
5/1/11-6/30/12	276,015	301,097	457,230	457,230											
5/1/12-6/30/13	233,591	284,263	279,388												
5/1/13-6/30/14	224,089	355,517													
5/1/14-6/30/15	181,972														
Accident Period	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-6/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-6/30/93							1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-6/30/94						1.087	0.992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-6/30/95					1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-6/30/96				1.037	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-6/30/97			1.122	0.927	1.035	1.003	0.949	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-6/30/98		2.173	0.992	0.970	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-6/30/99	3.735	1.275	0.987	0.861	1.022	0.992	0.953	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-6/30/00	2.202	1.828	1.003	0.973	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.996
5/1/00-6/30/01	1.871	1.066	0.897	0.988	0.980	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-6/30/02	1.350	1.139	1.219	1.220	1.000	0.963	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/02-6/30/03	1.103	1.186	1.133	0.955	0.921	1.000	1.000	1.000	1.000	1.000	1.008	1.000	1.000	1.000	
5/1/03-6/30/04	2.759	0.953	0.915	1.007	0.992	1.000	1.000	1.000	1.000	1.000	1.000				
5/1/04-6/30/05	1.104	0.970	1.000	1.131	1.005	1.044	1.000	1.000	0.949	1.000					
5/1/05-6/30/06	1.042	1.425	2.965	0.404	0.996	1.000	1.000	1.000	1.000						
5/1/06-6/30/07	1.550	1.009	1.032	1.000	1.097	1.000	1.000	1.000	1.000						
5/1/07-6/30/08	2.887	1.008	0.941	0.948	0.996	1.000	1.000								
5/1/08-6/30/09	2.976	1.089	0.500	0.900	1.866	1.928									
5/1/09-6/30/10	0.984	1.083	1.774	0.963	1.017										
5/1/10-6/30/11	1.568	1.278	1.180	0.998											
5/1/11-6/30/12	1.091	1.519	1.000												
5/1/12-6/30/13	1.217	0.983													
5/1/13-6/30/14	1.587														
All Years Average	1.814	1.249	1.166	0.955	1.058	1.063	0.993	1.001	0.997	1.000	1.001	1.000	1.000	1.000	1.000
All Years Weighted	1.895	1.311	1.040	0.942	1.028	1.050	0.993	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000
5 Years Weighted	1.233	1.159	0.956	0.957	1.133	1.234	1.000	1.000	0.993	1.000	1.001	1.000	1.000	1.000	0.999
3 Years Weighted	1.282	1.266	1.321	0.955	1.162	1.308	1.000	1.000	0.989	1.000	1.001	1.000	1.000	1.000	0.998
All Years excl Hi-Lo	1.736	1.204	1.085	0.976	1.010	1.009	0.996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7 Years excl Hi-Lo	1.670	1.093	1.185	0.962	1.022	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Industry	1.838	1.383	1.201	1.110	1.059	1.039	1.025	1.019	1.014	1.012	1.010	1.008	1.007	1.006	1.035
Prior (4/30/13)	1.914	1.130	1.076	1.011	1.005	1.004	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	1.800	1.300	1.200	1.050	1.020	1.010	1.002	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000
Age to Ultimate	3.056	1.698	1.306	1.088	1.036	1.016	1.006	1.004	1.003	1.002	1.001	1.000	1.000	1.000	1.000

Notes:

Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 General Liability
 Data as of April 30, 2015
 Paid Loss & ALAE Limited to \$2,000,000

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-6/30/92								228,802	228,802	228,802	228,802	228,802	228,802	228,802	228,802
5/1/92-6/30/93								421,515	421,719	423,703	423,703	423,703	423,703	423,703	423,703
5/1/93-6/30/94						698,289		741,189	752,951	752,951	752,951	752,951	752,951	752,951	752,951
5/1/94-6/30/95					1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112	1,038,112
5/1/95-6/30/96				951,583	987,493	987,493	987,493	987,493	987,493	987,493	987,493	987,493	987,493	987,493	987,493
5/1/96-6/30/97			951,126	972,342	973,577	974,171	975,135	975,135	975,135	975,135	975,135	975,135	975,135	975,135	975,135
5/1/97-6/30/98		1,845,331	3,924,162	3,926,600	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717	3,931,717
5/1/98-6/30/99	308,226	763,504	896,552	1,179,168	1,208,257	1,233,991	1,246,254	1,247,096	1,251,596	1,251,596	1,251,596	1,251,596	1,251,596	1,251,596	1,251,596
5/1/99-6/30/00	211,144	268,696	931,727	957,639	962,356	966,247	966,247	966,247	966,247	966,247	966,247	966,247	966,247	966,247	966,247
5/1/00-6/30/01	150,870	319,151	339,168	344,446	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659	344,659
5/1/01-6/30/02	289,112	506,674	600,761	631,574	875,452	877,456	877,456	877,456	877,456	877,456	877,456	877,456	877,456	877,456	877,456
5/1/02-6/30/03	295,343	335,573	381,919	463,905	465,166	465,166	465,166	465,166	465,166	465,166	465,166	468,728	468,728	468,728	468,728
5/1/03-6/30/04	221,485	1,414,695	1,446,241	1,470,390	1,470,587	1,470,587	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087	1,470,087
5/1/04-6/30/05	314,371	357,772	412,821	417,020	427,718	430,606	479,256	479,256	479,256	479,256	479,256	479,256	479,256	479,256	479,256
5/1/05-6/30/06	207,344	242,353	332,817	422,407	422,352	422,352	422,352	422,352	422,352	422,352	422,352	422,352	422,352	422,352	422,352
5/1/06-6/30/07	207,764	354,732	383,514	402,673	405,292	417,823	424,058	424,058	424,058	424,058	424,058	424,058	424,058	424,058	424,058
5/1/07-6/30/08	267,301	1,219,476	1,272,912	1,274,527	1,275,073	1,279,174	1,279,174	1,279,174	1,279,174						
5/1/08-6/30/09	255,508	320,702	397,954	436,971	461,045	508,749	951,349								
5/1/09-6/30/10	220,418	310,837	311,696	774,927	774,927	793,383									
5/1/10-6/30/11	183,704	223,281	280,309	496,294	496,294										
5/1/11-6/30/12	219,415	300,447	300,874	300,974											
5/1/12-6/30/13	194,509	260,847	260,847												
5/1/13-6/30/14	194,958	338,017													
5/1/14-6/30/15	136,747														
Accident Period	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-6/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-6/30/93							1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-6/30/94						1.061	1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-6/30/95					1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-6/30/96				1.038	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-6/30/97			1.022	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-6/30/98		2.127	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-6/30/99	2.477	1.174	1.315	1.025	1.021	1.010	1.001	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-6/30/00	1.273	3.468	1.028	1.005	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.996
5/1/00-6/30/01	2.115	1.063	1.016	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-6/30/02	1.753	1.186	1.051	1.386	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/02-6/30/03	1.136	1.138	1.215	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.008	1.000			
5/1/03-6/30/04	6.387	1.022	1.017	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
5/1/04-6/30/05	1.138	1.154	1.010	1.026	1.007	1.113	1.000	1.000	1.000	1.000					
5/1/05-6/30/06	1.169	1.373	1.269	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
5/1/06-6/30/07	1.707	1.081	1.050	1.007	1.031	1.015	1.000	1.000							
5/1/07-6/30/08	4.562	1.044	1.001	1.000	1.003	1.000	1.000								
5/1/08-6/30/09	1.255	1.241	1.098	1.055	1.103	1.870									
5/1/09-6/30/10	1.410	1.003	2.486	1.000	1.024										
5/1/10-6/30/11	1.215	1.255	1.771	1.000											
5/1/11-6/30/12	1.369	1.001	1.000												
5/1/12-6/30/13	1.341	1.000													
5/1/13-6/30/14	1.734														
All Years Average	2.003	1.333	1.209	1.034	1.012	1.067	1.001	1.001	1.000	1.000	1.001	1.000	1.000	1.000	1.000
All Years Weighted	2.014	1.379	1.099	1.024	1.007	1.035	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Years Weighted	1.415	1.096	1.281	1.008	1.025	1.163	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	0.999
3 Years Weighted	1.477	1.073	1.761	1.014	1.028	1.203	1.000	1.000	1.000	1.000	1.001	1.000	1.000	1.000	0.998
All Years excl Hi-Lo	1.751	1.204	1.133	1.012	1.007	1.014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7 Years excl Hi-Lo	1.422	1.074	1.238	1.007	1.013	1.026	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Industry	2.660	1.713	1.374	1.210	1.119	1.071	1.043	1.028	1.021	1.018	1.015	1.013	1.011	1.009	1.056
Prior (4/30/13)	2.040	1.247	1.091	1.032	1.011	1.008	1.002	1.002	1.001	1.001	1.000	1.000	1.000	1.000	1.000
Selected	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	2.000	1.350	1.200	1.050	1.040	1.020	1.007	1.003	1.002	1.001	1.001	1.001	1.001	1.000	1.000
Age to Ultimate	3.667	1.833	1.358	1.132	1.078	1.036	1.016	1.009	1.006	1.004	1.003	1.002	1.001	1.000	1.000

Notes:
 Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
General Liability
Data as of April 30, 2015
Reported Claim Counts excluding Claims Closed with no Payment

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-6/30/92								147	147	147	147	147	147	147	147
5/1/92-6/30/93							152	152	152	152	152	152	151	151	151
5/1/93-6/30/94						198	200	199	199	199	199	201	200	200	200
5/1/94-6/30/95					221	222	221	221	221	221	219	220	220	220	220
5/1/95-6/30/96				192	193	192	192	192	192	192	192	192	192	192	192
5/1/96-6/30/97			209	211	210	210	211	211	210	210	210	210	210	210	210
5/1/97-6/30/98		244	252	248	248	248	248	248	248	248	248	248	248	248	248
5/1/98-6/30/99	194	251	252	250	247	246	248	248	248	248	248	248	248	248	248
5/1/99-6/30/00	270	234	237	237	237	234	233	233	234	233	233	233	233	233	232
5/1/00-6/30/01	287	245	247	247	246	238	238	238	238	239	238	238	238	238	238
5/1/01-6/30/02	285	263	261	263	259	259	259	259	259	259	259	259	259	259	259
5/1/02-6/30/03	256	232	233	232	232	232	231	231	231	231	231	231	231		
5/1/03-6/30/04	260	232	232	232	232	231	230	230	230	230	230	230	230		
5/1/04-6/30/05	250	227	226	227	228	227	226	226	226	225	225				
5/1/05-6/30/06	203	174	176	176	175	175	175	175	175	175					
5/1/06-6/30/07	236	193	194	191	191	191	191	191	191						
5/1/07-6/30/08	183	160	162	161	162	162	163	163							
5/1/08-6/30/09	158	155	156	156	155	156	156								
5/1/09-6/30/10	200	170	171	170	168	169									
5/1/10-6/30/11	190	179	178	174	172										
5/1/11-6/30/12	183	174	174	173											
5/1/12-6/30/13	172	144	140												
5/1/13-6/30/14	216	178													
5/1/14-6/30/15	239														

Accident Period	Evaluation Date in Months														
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-6/30/92							1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/92-6/30/93						1.010	0.995	1.000	1.000	1.000	1.000	0.993	1.000	1.000	
5/1/93-6/30/94					1.005	0.995	1.000	1.000	1.000	1.000	1.010	0.995	1.000	1.000	
5/1/94-6/30/95					1.005	0.995	1.000	1.000	1.000	0.991	1.005	1.000	1.000	1.000	
5/1/95-6/30/96				1.005	0.995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/96-6/30/97			1.010	0.995	1.000	1.005	1.000	0.995	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/97-6/30/98		1.033	0.984	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/98-6/30/99	1.294	1.004	0.992	0.988	0.996	1.008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/99-6/30/00	0.867	1.013	1.000	1.000	0.987	0.996	1.000	1.004	0.996	1.000	1.000	1.000	1.000	0.996	
5/1/00-6/30/01	0.854	1.008	1.000	0.996	0.967	1.000	1.000	1.000	1.004	0.996	1.000	1.000	1.000	1.000	
5/1/01-6/30/02	0.923	0.992	1.008	0.985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/02-6/30/03	0.906	1.004	0.996	1.000	1.000	1.000	0.996	1.000	1.000	1.000	1.000	1.000	1.000		
5/1/03-6/30/04	0.892	1.000	1.000	1.000	0.996	0.996	1.000	1.000	1.000	1.000	1.000	1.000			
5/1/04-6/30/05	0.908	0.996	1.004	1.004	0.996	0.996	1.000	1.000	0.996	1.000					
5/1/05-6/30/06	0.857	1.011	1.000	0.994	1.000	1.000	1.000	1.000	1.000						
5/1/06-6/30/07	0.818	1.005	0.985	1.000	1.000	1.000	1.000	1.000							
5/1/07-6/30/08	0.874	1.013	0.994	1.006	1.000	1.006	1.000								
5/1/08-6/30/09	0.981	1.006	1.000	0.994	1.006	1.000									
5/1/09-6/30/10	0.850	1.006	0.994	0.988	1.006										
5/1/10-6/30/11	0.942	0.994	0.978	0.989											
5/1/11-6/30/12	0.951	1.000	0.994												
5/1/12-6/30/13	0.837	0.972													
5/1/13-6/30/14	0.824														
All Years Average	0.911	1.004	0.996	0.997	0.997	1.001	0.999	1.000	1.000	0.999	1.001	0.999	1.000	1.000	
All Years Weighted	0.906	1.004	0.996	0.996	0.996	1.001	0.999	1.000	1.000	0.999	1.001	0.999	1.000	1.000	
5 Years Weighted	0.879	0.996	0.992	0.995	1.002	1.000	1.000	1.000	0.999	0.999	1.000	1.000	1.000	0.999	
3 Years Weighted	0.869	0.990	0.989	0.990	1.004	1.002	1.000	1.000	0.998	1.000	1.000	1.000	1.000	0.999	
All Years excl Hi-Lo	0.890	1.004	0.996	0.997	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7 Years excl Hi-Lo	0.891	1.002	0.993	0.996	1.000	0.999	1.000	1.000	0.999	1.000	1.000	1.000	1.000	1.000	
Prior (4/30/13)	0.932	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Selected	Evaluation Date in Months														
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	0.885	0.999	0.993	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Age to Ultimate	0.878	0.992	0.993	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Notes:
Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 General Liability
 Data as of June 30, 2015
 Loss & ALAE Limited to Retention

Comparison of Expected Development to Actual Development

SECTION I - REPORTED LOSS & ALAE

Fiscal Years	Selected Ultimate Loss & ALAE as of 4/30/13 (1)	Actual Reported Loss & ALAE as of		Expected Percent Reported as of		Actual Change in Reported 4/13 - 6/15 (2b) - (2a) (4)	Expected Change in Reported 4/13 - 6/15 (5)	Actual Minus Expected (4) - (5) (6)	Selected Ultimate Loss & ALAE as of 6/30/15 (7)	Change in Ultimate Loss & ALAE (8)
		4/30/13 (2a)	6/30/15 (2b)	4/30/13 (3a)	6/30/15 (3b)					
7/1/04-6/30/05	361,785	359,698	333,698	100.0%	100.0%	(26,000)	2,087	(28,087)	333,698	(28,087)
7/1/05-6/30/06	516,228	514,271	513,271	99.9%	100.0%	(1,000)	1,957	(2,957)	517,284	1,056
7/1/06-6/30/07	423,514	396,871	396,899	99.7%	100.0%	28	26,643	(26,615)	421,983	(1,532)
7/1/07-6/30/08	1,312,471	1,306,918	1,307,018	99.2%	99.9%	100	4,826	(4,726)	1,310,079	(2,392)
7/1/08-6/30/09	402,001	402,001	897,537	98.7%	99.7%	495,535	0	495,535	897,537	495,535
7/1/09-6/30/10	950,362	900,456	952,811	97.1%	99.3%	52,355	37,855	14,500	964,844	14,482
7/1/10-6/30/11	454,228	406,922	457,692	89.6%	98.8%	50,770	41,810	8,960	474,350	20,121
7/1/11-6/30/12	402,442 *	244,625	399,858	75.6%	97.7%	155,234	143,058	12,176	435,132	32,690
7/1/12-6/30/13	635,050 *	196,215	301,644	33.5%	90.9%	105,429	378,451	(273,022)	393,905	(241,145)
7/1/13-6/30/14	655,228 *	0	374,386	0.0%	80.4%	374,386	527,034	(152,647)	640,762	(14,466)
7/1/14-6/30/15	663,768 *	0	179,885	0.0%	42.0%	179,885	278,973	(99,089)	630,610	(33,158)
Total All Years excl FY14 & FY15	6,777,077 5,458,081	4,727,978 4,727,978	6,114,700 5,560,429			1,386,722 832,451	1,442,694 636,687	(55,971) 195,765	7,020,182 5,748,810	243,105 290,729

SECTION II - PAID LOSS & ALAE

Fiscal Years	Selected Ultimate Loss & ALAE as of 4/30/13 (1)	Actual Paid Loss & ALAE as of		Expected Percent Paid as of		Actual Change in Paid 4/13 - 6/15 (2b) - (2a) (4)	Expected Change in Paid 4/13 - 6/15 (5)	Actual Minus Expected (4) - (5) (6)	Selected Ultimate Loss & ALAE as of 6/30/15 (7)	Change in Ultimate Loss & ALAE (8)
		4/30/13 (2a)	6/30/15 (2b)	4/30/13 (3a)	6/30/15 (3b)					
7/1/04-6/30/05	361,785	333,698	333,698	99.8%	100.0%	0	28,087	(28,087)	333,698	(28,087)
7/1/05-6/30/06	516,228	509,266	509,266	99.6%	99.9%	0	5,332	(5,332)	517,284	1,056
7/1/06-6/30/07	423,514	370,514	371,899	99.3%	99.8%	1,385	37,559	(36,174)	421,983	(1,532)
7/1/07-6/30/08	1,312,471	1,305,918	1,305,918	98.5%	99.6%	0	4,802	(4,802)	1,310,079	(2,392)
7/1/08-6/30/09	402,001	402,001	897,537	97.2%	99.4%	495,535	0	495,535	897,537	495,535
7/1/09-6/30/10	950,362	812,681	950,146	93.7%	98.6%	137,465	108,230	29,236	964,844	14,482
7/1/10-6/30/11	454,228	310,115	457,092	84.6%	97.6%	146,977	121,691	25,285	474,350	20,121
7/1/11-6/30/12	402,442 *	243,675	244,202	64.8%	94.5%	527	134,187	(133,660)	435,132	32,690
7/1/12-6/30/13	635,050 *	157,432	271,111	25.3%	86.7%	113,679	392,300	(278,621)	393,905	(241,145)
7/1/13-6/30/14	655,228 *	0	336,186	0.0%	69.5%	336,186	455,408	(119,222)	640,762	(14,466)
7/1/14-6/30/15	663,768 *	0	135,676	0.0%	34.1%	135,676	226,151	(90,476)	630,610	(33,158)
Total All Years excl FY14 & FY15	6,777,077 5,458,081	4,445,301 4,445,301	5,812,732 5,340,870			1,367,430 895,568	1,513,748 832,189	(146,318) 63,380	7,020,182 5,748,810	243,105 290,729

Notes:

Columns (1), (2a), and (3) are from Oliver Wyman's report using data valued as of April 30, 2013.

Column (2b) provided by City of Virginia Beach.

Column (5) equals [Column (1) - Column (2a)] x [Column (3b) - Column (3a)] / [1.00 - Column (3a)].

Column (7) equals Exhibit 1, Sheet 4, Column (9).

Column (8) equals Column (7) - Column (1).

* The selected ultimates for fiscal years ending 2012 through 2015 have been revised with updated exposures.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Summary of Unpaid Loss & ALAE as of June 30, 2016

Fiscal Years	Selected Ultimate Loss & ALAE as of 6/30/15 (1)	Total Unpaid Loss & ALAE as of 6/30/15 (2)	% Paid Loss & ALAE as of 6/30/15 (3)	% Paid Loss & ALAE as of 6/30/16 (4)	Expected Paid Between 6/30/15 and 6/30/16 (5)	Total Unpaid Loss & ALAE as of 6/30/16 (6)
7/1/04-6/30/05	1,169,493	0	100.0%	100.0%	0	0
7/1/05-6/30/06	725,117	0	100.0%	100.0%	0	0
7/1/06-6/30/07	504,989	0	100.0%	100.0%	0	0
7/1/07-6/30/08	345,237	0	100.0%	100.0%	0	0
7/1/08-6/30/09	368,069	0	99.9%	100.0%	0	0
7/1/09-6/30/10	726,460	0	99.8%	99.9%	0	0
7/1/10-6/30/11	221,944	0	99.7%	99.8%	0	0
7/1/11-6/30/12	993,243	141,446	98.1%	99.7%	118,677	22,769
7/1/12-6/30/13	460,993	171,470	89.7%	98.1%	140,409	31,061
7/1/13-6/30/14	300,439	69,019	58.8%	89.7%	51,813	17,206
7/1/14-6/30/15	701,416	495,054	31.8%	58.8%	196,183	298,871
7/1/15-6/30/16	762,419	0	0.0%	31.8%	242,269	520,150
Total	7,279,819	876,988			749,350	890,057
					Current (Short-term) Liability (excludes FY2016)*: as a percent of 6/30/15 Liability:	507,081 58%

Notes:

Column (1) is from Exhibit 1, Sheet 4, Column (9).

Column (2) is from Exhibit 1, Sheet 3, Column (6).

Columns (3) and (4) are based on Exhibit 6, Sheet 6.

Column (5) equals Column (2) x [Column (4) - Column (3)] / [1.0 - Column (3)].

Column (6) equals Exhibit 1, Sheet 4, Column (9) - Exhibit 1, Sheet 4, Column (7) - Column (5).

* Current (Short-term) liability is calculated as the expected payments during the next 12 months for accidents occurring through the current evaluation date only.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Summary of Reported Loss & ALAE and IBNR as of June 30, 2016

Fiscal Years	Selected Ultimate Loss & ALAE as of 6/30/15 (1)	Total IBNR as of 6/30/15 (2)	% Reported Loss & ALAE as of 6/30/15 (3)	% Reported Loss & ALAE as of 6/30/16 (4)	Expected Rpt Between 6/30/15 and 6/30/16 (5)	Total IBNR as of 6/30/16 (6)
7/1/04-6/30/05	1,169,493	0	100.0%	100.0%	0	0
7/1/05-6/30/06	725,117	0	100.0%	100.0%	0	0
7/1/06-6/30/07	504,989	0	100.0%	100.0%	0	0
7/1/07-6/30/08	345,237	0	100.0%	100.0%	0	0
7/1/08-6/30/09	368,069	0	100.0%	100.0%	0	0
7/1/09-6/30/10	726,460	0	99.9%	100.0%	0	0
7/1/10-6/30/11	221,944	0	99.8%	99.9%	0	0
7/1/11-6/30/12	993,243	35,949	99.5%	99.8%	20,762	15,187
7/1/12-6/30/13	460,993	104,555	93.7%	99.5%	96,660	7,894
7/1/13-6/30/14	300,439	64,000	78.7%	93.7%	45,191	18,810
7/1/14-6/30/15	701,416	442,299	42.6%	78.7%	278,134	164,165
7/1/15-6/30/16	762,419	0	0.0%	42.6%	324,841	437,578
Total	7,279,819	646,803			765,589	643,634

Notes:

Column (1) is from Exhibit 1, Sheet 4, Column (9).

Column (2) is from Exhibit 1, Sheet 3, Column (5).

Columns (3) and (4) are based on Exhibit 6, Sheet 5.

Column (5) equals Column (2) x [Column (4) - Column (3)] / [1.0 - Column (3)].

Column (6) equals Exhibit 1, Sheet 4, Column (9) - Exhibit 1, Sheet 4, Column (6) - Column (5).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Summary of Reserves as of June 30, 2015

Fiscal Years	Selected Ultimate Loss & ALAE (1)	Reported Loss & ALAE as of 6/30/15 (2)	Paid Loss & ALAE as of 6/30/15 (3)	Case Reserves as of 6/30/15 (4)	IBNR Reserves as of 6/30/15 (5)	Total Unpaid Loss & ALAE as of 6/30/15 (6)
7/1/04-6/30/05	1,169,493	1,169,493	1,169,493	0	0	0
7/1/05-6/30/06	725,117	725,117	725,117	0	0	0
7/1/06-6/30/07	504,989	504,989	504,989	0	0	0
7/1/07-6/30/08	345,237	345,237	345,237	0	0	0
7/1/08-6/30/09	368,069	368,069	368,069	0	0	0
7/1/09-6/30/10	726,460	726,460	726,460	0	0	0
7/1/10-6/30/11	221,944	221,944	221,944	0	0	0
7/1/11-6/30/12	993,243	957,294	851,797	105,497	35,949	141,446
7/1/12-6/30/13	460,993	356,438	289,523	66,915	104,555	171,470
7/1/13-6/30/14	300,439	236,439	231,421	5,018	64,000	69,019
7/1/14-6/30/15	701,416	259,117	206,362	52,754	442,299	495,054
Total	6,517,400	5,870,597	5,640,412	230,185	646,803	876,988

Notes:

Column (1) is from Exhibit 1, Sheet 4, Column (9).
Columns (2) and (3) provided by City of Virginia Beach.
Column (4) equals Column (2) - Column (3).
Column (5) equals Column (1) - Column (2).
Column (6) equals Column (4) + Column (5).

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Estimate of Ultimate Loss & ALAE

Fiscal Years	Reported Loss & ALAE Development Method (1)	Paid Loss & ALAE Development Method (2)	Reported Bornhuetter-Ferguson Method (3)	Paid Bornhuetter-Ferguson Method (4)	Case Development Method (5)	Reported Loss & ALAE as of 6/30/15 (6)	Paid Loss & ALAE as of 6/30/15 (7)	Implied Open and IBNR Claim Counts (8a)	Implied Open and IBNR Claim Counts within Retention (8b)	Selected Ultimate Loss & ALAE (9)	Implied Loss & ALAE Cost (10)
7/1/04-6/30/05	1,169,493	1,169,493	1,169,493	1,169,493	1,169,493	1,169,493	1,169,493	0	0	1,169,493	528
7/1/05-6/30/06	725,117	725,117	725,117	725,117	725,117	725,117	725,117	0	0	725,117	325
7/1/06-6/30/07	504,989	504,989	504,989	504,989	504,989	504,989	504,989	0	0	504,989	220
7/1/07-6/30/08	345,237	345,237	345,237	345,237	345,237	345,237	345,237	0	0	345,237	150
7/1/08-6/30/09	368,069	368,438	368,069	368,787	368,069	368,069	368,069	0	0	368,069	157
7/1/09-6/30/10	727,187	727,914	727,177	727,892	726,460	726,460	726,460	0	0	726,460	312
7/1/10-6/30/11	222,388	222,610	223,384	224,103	221,944	221,944	221,944	0	0	221,944	95
7/1/11-6/30/12	961,840	867,940	960,659	865,040	993,243	957,294	851,797	1	1	993,243	434
7/1/12-6/30/13	380,245	322,652	403,264	366,317	460,993	356,438	289,523	5	5	460,993	193
7/1/13-6/30/14	300,439	393,490	396,718	541,319	241,815	236,439	231,421	1	1	300,439	126
7/1/14-6/30/15	608,160	649,421	694,085	723,410	538,680	259,117	206,362	30	30	701,416	293
Total	6,313,164	6,297,300	6,518,192	6,561,704	6,296,040	5,870,597	5,640,412	38	38	6,517,400	
7/1/15-6/30/16										762,419	319

Notes:

Column (1) is from Exhibit 2, Sheet 1, Column (3).
Column (2) is from Exhibit 2, Sheet 3, Column (3).
Column (3) is from Exhibit 2, Sheet 5, Column (5).
Column (4) is from Exhibit 2, Sheet 6, Column (5).
Column (5) is from Exhibit 2, Sheet 7, Column (6).
Columns (6) and (7) provided by City of Virginia Beach.
Column (8a) is from Exhibit 4, Sheet 1, Column (6).
Column (8b) based on Column (8a) and individual claim detail.
Column (9) based on Columns (1) through (8b) and actuarial judgment, fiscal year 7/1/15-6/30/16 is from Exhibit 3, Sheet 1, Column (5).
Column (10) equals Column (9) / Number of Vehicles.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Reported Loss & ALAE Development Method

Fiscal Years	Retention	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Ultimate Loss & ALAE (1) x (2) (3)	Number of Vehicles (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	2,000,000	1,169,493	1.000	1,169,493	2,213	528
7/1/05-6/30/06	2,000,000	725,117	1.000	725,117	2,228	325
7/1/06-6/30/07	2,000,000	504,989	1.000	504,989	2,294	220
7/1/07-6/30/08	2,000,000	345,237	1.000	345,237	2,294	150
7/1/08-6/30/09	2,000,000	368,069	1.000	368,069	2,349	157
7/1/09-6/30/10	2,000,000	726,460	1.001	727,187	2,330	312
7/1/10-6/30/11	2,000,000	221,944	1.002	222,388	2,330	95
7/1/11-6/30/12	2,000,000	957,294	1.005	961,840	2,286	421
7/1/12-6/30/13	2,000,000	356,438	1.067	380,245	2,387	159
7/1/13-6/30/14	2,000,000	236,439	1.271	300,439	2,387	126
7/1/14-6/30/15	2,000,000	259,117	2.347	608,160	2,390	254
Total		5,870,597		6,313,164	25,488	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheet 5.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015

Reported Loss & ALAE Development Method

Section I - Reported Loss & ALAE Limited to \$250,000

Fiscal Years	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Number of Vehicles (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	555,682	1.000	555,682	2,213	251
7/1/05-6/30/06	725,117	1.000	725,117	2,228	325
7/1/06-6/30/07	504,989	1.000	504,989	2,294	220
7/1/07-6/30/08	345,237	1.000	345,237	2,294	150
7/1/08-6/30/09	368,069	1.000	368,069	2,349	157
7/1/09-6/30/10	471,457	1.000	471,457	2,330	202
7/1/10-6/30/11	221,944	1.000	221,944	2,330	95
7/1/11-6/30/12	765,716	1.002	767,332	2,286	336
7/1/12-6/30/13	356,438	1.041	371,100	2,387	155
7/1/13-6/30/14	236,439	1.146	270,865	2,387	113
7/1/14-6/30/15	259,117	1.943	503,374	2,390	211
Total	4,810,205		5,105,167	25,488	

Section II - Reported Loss & ALAE Limited to \$1,000,000

Fiscal Years	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Number of Vehicles (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	1,169,493	1.000	1,169,493	2,213	528
7/1/05-6/30/06	725,117	1.000	725,117	2,228	325
7/1/06-6/30/07	504,989	1.000	504,989	2,294	220
7/1/07-6/30/08	345,237	1.000	345,237	2,294	150
7/1/08-6/30/09	368,069	1.000	368,069	2,349	157
7/1/09-6/30/10	726,460	1.000	726,460	2,330	312
7/1/10-6/30/11	221,944	1.001	222,166	2,330	95
7/1/11-6/30/12	957,294	1.004	961,001	2,286	420
7/1/12-6/30/13	356,438	1.064	379,251	2,387	159
7/1/13-6/30/14	236,439	1.267	299,654	2,387	126
7/1/14-6/30/15	259,117	2.341	606,571	2,390	254
Total	5,870,597		6,308,007	25,488	

Section III - Reported Loss & ALAE Limited to \$2,000,000

Fiscal Years	Reported Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Number of Vehicles (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	1,169,493	1.000	1,169,493	2,213	528
7/1/05-6/30/06	725,117	1.000	725,117	2,228	325
7/1/06-6/30/07	504,989	1.000	504,989	2,294	220
7/1/07-6/30/08	345,237	1.000	345,237	2,294	150
7/1/08-6/30/09	368,069	1.000	368,069	2,349	157
7/1/09-6/30/10	726,460	1.001	727,187	2,330	312
7/1/10-6/30/11	221,944	1.002	222,388	2,330	95
7/1/11-6/30/12	957,294	1.005	961,840	2,286	421
7/1/12-6/30/13	356,438	1.067	380,245	2,387	159
7/1/13-6/30/14	236,439	1.271	300,439	2,387	126
7/1/14-6/30/15	259,117	2.347	608,160	2,390	254
Total	5,870,597		6,313,164	25,488	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheets 1, 3, and 5.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Paid Loss & ALAE Development Method

Fiscal Years	Retention	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Ultimate Loss & ALAE (1) x (2) (3)	Number of Vehicles (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	2,000,000	1,169,493	1.000	1,169,493	2,213	528
7/1/05-6/30/06	2,000,000	725,117	1.000	725,117	2,228	325
7/1/06-6/30/07	2,000,000	504,989	1.000	504,989	2,294	220
7/1/07-6/30/08	2,000,000	345,237	1.000	345,237	2,294	150
7/1/08-6/30/09	2,000,000	368,069	1.001	368,438	2,349	157
7/1/09-6/30/10	2,000,000	726,460	1.002	727,914	2,330	312
7/1/10-6/30/11	2,000,000	221,944	1.003	222,610	2,330	96
7/1/11-6/30/12	2,000,000	851,797	1.019	867,940	2,286	380
7/1/12-6/30/13	2,000,000	289,523	1.114	322,652	2,387	135
7/1/13-6/30/14	2,000,000	231,421	1.700	393,490	2,387	165
7/1/14-6/30/15	2,000,000	206,362	3.147	649,421	2,390	272
Total		5,640,412		6,297,300	25,488	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheet 6.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015

Paid Loss & ALAE Development Method

Section I - Paid Loss & ALAE Limited to \$250,000

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Number of Vehicles (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	555,682	1.000	555,682	2,213	251
7/1/05-6/30/06	725,117	1.000	725,117	2,228	325
7/1/06-6/30/07	504,989	1.000	504,989	2,294	220
7/1/07-6/30/08	345,237	1.000	345,237	2,294	150
7/1/08-6/30/09	368,069	1.000	368,069	2,349	157
7/1/09-6/30/10	471,457	1.000	471,457	2,330	202
7/1/10-6/30/11	221,944	1.001	222,166	2,330	95
7/1/11-6/30/12	660,219	1.011	667,364	2,286	292
7/1/12-6/30/13	289,523	1.071	310,216	2,387	130
7/1/13-6/30/14	231,421	1.301	301,101	2,387	126
7/1/14-6/30/15	206,362	2.321	478,949	2,390	200
Total	4,580,020		4,950,347	25,488	

Section II - Paid Loss & ALAE Limited to \$1,000,000

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Number of Vehicles (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	1,169,493	1.000	1,169,493	2,213	528
7/1/05-6/30/06	725,117	1.000	725,117	2,228	325
7/1/06-6/30/07	504,989	1.000	504,989	2,294	220
7/1/07-6/30/08	345,237	1.000	345,237	2,294	150
7/1/08-6/30/09	368,069	1.000	368,069	2,349	157
7/1/09-6/30/10	726,460	1.001	727,187	2,330	312
7/1/10-6/30/11	221,944	1.002	222,388	2,330	95
7/1/11-6/30/12	851,797	1.016	865,120	2,286	378
7/1/12-6/30/13	289,523	1.104	319,527	2,387	134
7/1/13-6/30/14	231,421	1.638	378,959	2,387	159
7/1/14-6/30/15	206,362	3.031	625,440	2,390	262
Total	5,640,412		6,251,526	25,488	

Section III - Paid Loss & ALAE Limited to \$2,000,000

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Loss & ALAE (1) x (2) (3)	Number of Vehicles (4)	Indicated Loss & ALAE Cost (3) / (4) (5)
7/1/04-6/30/05	1,169,493	1.000	1,169,493	2,213	528
7/1/05-6/30/06	725,117	1.000	725,117	2,228	325
7/1/06-6/30/07	504,989	1.000	504,989	2,294	220
7/1/07-6/30/08	345,237	1.000	345,237	2,294	150
7/1/08-6/30/09	368,069	1.001	368,438	2,349	157
7/1/09-6/30/10	726,460	1.002	727,914	2,330	312
7/1/10-6/30/11	221,944	1.003	222,610	2,330	96
7/1/11-6/30/12	851,797	1.019	867,940	2,286	380
7/1/12-6/30/13	289,523	1.114	322,652	2,387	135
7/1/13-6/30/14	231,421	1.700	393,490	2,387	165
7/1/14-6/30/15	206,362	3.147	649,421	2,390	272
Total	5,640,412		6,297,300	25,488	

Notes:

Columns (1) and (4) provided by City of Virginia Beach.

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheets 2, 4, and 6.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Reported Bornhuetter-Ferguson Method

Fiscal Years	Expected Estimate of Ultimate Loss & ALAE (1)	Age to Ultimate Factors (2)	Unreported Loss & ALAE (3)	Reported Loss & ALAE as of 6/30/15 (4)	Estimated Ultimate Loss & ALAE (3) + (4) (5)	Indicated Loss & ALAE Cost (6)
7/1/04-6/30/05	660,997	1.000	0	1,169,493	1,169,493	528
7/1/05-6/30/06	669,470	1.000	0	725,117	725,117	325
7/1/06-6/30/07	693,438	1.000	0	504,989	504,989	220
7/1/07-6/30/08	697,598	1.000	0	345,237	345,237	150
7/1/08-6/30/09	718,609	1.000	0	368,069	368,069	157
7/1/09-6/30/10	717,074	1.001	716	726,460	727,177	312
7/1/10-6/30/11	721,376	1.002	1,441	221,944	223,384	96
7/1/11-6/30/12	712,000	1.005	3,366	957,294	960,659	420
7/1/12-6/30/13	747,918	1.067	46,825	356,438	403,264	169
7/1/13-6/30/14	752,406	1.271	160,279	236,439	396,718	166
7/1/14-6/30/15	757,872	2.347	434,968	259,117	694,085	290
Total	7,848,759		647,596	5,870,597	6,518,192	

Notes:

Column (1) is from Exhibit 3, Sheet 1, Column (5).

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheet 5.

Column (3) equals Column (1) x [1.0 - 1.0 / Column (2)].

Column (4) provided by City of Virginia Beach.

Column (6) equals Column (5) / Number of Vehicles.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Paid Bornhuetter-Ferguson Method

<u>Fiscal Years</u>	<u>Expected Estimate of Ultimate Loss & ALAE</u> (1)	<u>Age to Ultimate Factors</u> (2)	<u>Unpaid Loss & ALAE</u> (3)	<u>Paid Loss & ALAE as of 6/30/15</u> (4)	<u>Estimated Ultimate Loss & ALAE (3) + (4)</u> (5)	<u>Indicated Loss & ALAE Cost</u> (6)
7/1/04-6/30/05	660,997	1.000	0	1,169,493	1,169,493	528
7/1/05-6/30/06	669,470	1.000	0	725,117	725,117	325
7/1/06-6/30/07	693,438	1.000	0	504,989	504,989	220
7/1/07-6/30/08	697,598	1.000	0	345,237	345,237	150
7/1/08-6/30/09	718,609	1.001	718	368,069	368,787	157
7/1/09-6/30/10	717,074	1.002	1,432	726,460	727,892	312
7/1/10-6/30/11	721,376	1.003	2,160	221,944	224,103	96
7/1/11-6/30/12	712,000	1.019	13,243	851,797	865,040	378
7/1/12-6/30/13	747,918	1.114	76,794	289,523	366,317	153
7/1/13-6/30/14	752,406	1.700	309,898	231,421	541,319	227
7/1/14-6/30/15	<u>757,872</u>	3.147	<u>517,048</u>	<u>206,362</u>	<u>723,410</u>	303
Total	7,848,759		921,292	5,640,412	6,561,704	

Notes:

Column (1) is from Exhibit 3, Sheet 1, Column (5).

The age to ultimate factors in Column (2) are based on Exhibit 6, Sheet 6.

Column (3) equals Column (1) x [1.0 - 1.0 / Column (2)].

Column (4) provided by City of Virginia Beach.

Column (6) equals Column (5) / Number of Vehicles.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Case Development Method

Fiscal Years	Paid Loss & ALAE as of 6/30/15 (1)	Case Outstanding Loss & ALAE as of 6/30/15 (2)	Percent of Ultimate Loss & ALAE Reported (3)	Percent of Ultimate Loss & ALAE Paid (4)	Incurred But Not Reported Loss & ALAE (5)	Estimated Ultimate Loss & ALAE (6)	Indicated Loss & ALAE Cost (7)
7/1/04-6/30/05	1,169,493	0	100.0%	100.0%	0	1,169,493	528
7/1/05-6/30/06	725,117	0	100.0%	100.0%	0	725,117	325
7/1/06-6/30/07	504,989	0	100.0%	100.0%	0	504,989	220
7/1/07-6/30/08	345,237	0	100.0%	100.0%	0	345,237	150
7/1/08-6/30/09	368,069	0	100.0%	99.9%	0	368,069	157
7/1/09-6/30/10	726,460	0	99.9%	99.8%	0	726,460	312
7/1/10-6/30/11	221,944	0	99.8%	99.7%	0	221,944	95
7/1/11-6/30/12	851,797	105,497	99.5%	98.1%	35,949	993,243	434
7/1/12-6/30/13	289,523	66,915	93.7%	89.7%	104,555	460,993	193
7/1/13-6/30/14	231,421	5,018	78.7%	58.8%	5,376	241,815	101
7/1/14-6/30/15	206,362	52,754	42.6%	31.8%	279,564	538,680	225
Total	5,640,412	230,185			425,443	6,296,040	

Notes:

Columns (1) and (2) provided by City of Virginia Beach.
The factors in Column (3) equal 1.0 / Exhibit 2, Sheet 1, Column (2).
The factors in Column (4) equal 1.0 / Exhibit 2, Sheet 3, Column (2).
Column (5) equals Column (2) x [1.0 - Column (3)] / [Column (3) - Column (4)].
Column (6) equals Column (1) + Column (2) + Column (5).
Column (7) equals Column (6) / Number of Vehicles.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015

Loss Cost Method Summary

Fiscal Years	Smoothed Selected Loss & ALAE Cost @ \$1,000,000 (1)	Smoothed Selected Loss & ALAE Cost @ \$2,000,000 (2)	Smoothed Retained Loss & ALAE Cost (3)	Number of Vehicles (4)	Estimated Ultimate Loss & ALAE (5)
7/1/04-6/30/05	266	299	299	2,213	660,997
7/1/05-6/30/06	267	300	300	2,228	669,470
7/1/06-6/30/07	268	302	302	2,294	693,438
7/1/07-6/30/08	270	304	304	2,294	697,598
7/1/08-6/30/09	271	306	306	2,349	718,609
7/1/09-6/30/10	272	308	308	2,330	717,074
7/1/10-6/30/11	273	310	310	2,330	721,376
7/1/11-6/30/12	274	311	311	2,286	712,000
7/1/12-6/30/13	275	313	313	2,387	747,918
7/1/13-6/30/14	276	315	315	2,387	752,406
7/1/14-6/30/15	277	317	317	2,390	757,872
Total				25,488	7,848,759
7/1/15-6/30/16 at retention \$2,000,000			319	2,390	762,419

SELECTED LOSS & ALAE COST AT THE 7/1/14-6/30/15 LEVEL

Selected loss cost - Limited to \$250,000 (from Exhibit 3, Sheet 2)	206
Indicated loss cost - Limited to \$1,000,000 (from Exhibit 3, Sheet 3)	258
Increased limits factor from \$250K to \$1M *	1.346
Indicated loss cost - Limited to \$1,000,000 using industry \$250K to \$1M ILF	277
Selected loss cost - Limited to \$1,000,000	277
Indicated loss cost - Limited to \$2,000,000 (from Exhibit 3, Sheet 4)	261
Increased limits factor from \$1M to \$2M *	1.144
Indicated loss cost - Limited to \$2,000,000 using industry \$1M to \$2M ILF	317
Selected loss cost - Limited to \$2,000,000	317

Notes:

Columns (1) and (2) are the selected fiscal year 7/1/14-6/30/15 loss cost, detrended at an annual rate of 0.40% and 0.60% at retention \$1M and \$2M, respectively.

Column (3) is the selected fiscal year loss cost at the respective historical retention.

Column (4) provided by City of Virginia Beach.

Column (5) equals Column (3) x Column (4).

* Increased limits factors based on industry information.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015

Loss Cost Method, Loss & ALAE Limited to \$250,000

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Number of Vehicles (3)	Adjustment to FY2015 Exposure (4)	Adjusted Vehicles (3) x (4) (5)	Indicated Loss Cost (6)	Trended to FY2015 Loss Cost (7)
7/1/04-6/30/05	555,682	1.000	2,213	1.000	2,213	251	251
7/1/05-6/30/06	725,117	1.000	2,228	1.000	2,228	325	325
7/1/06-6/30/07	504,989	1.000	2,294	1.000	2,294	220	220
7/1/07-6/30/08	345,237	1.000	2,294	1.000	2,294	150	150
7/1/08-6/30/09	368,069	1.000	2,349	1.000	2,349	157	157
7/1/09-6/30/10	471,457	1.000	2,330	1.000	2,330	202	202
7/1/10-6/30/11	221,944	1.000	2,330	1.000	2,330	95	95
7/1/11-6/30/12	801,665	1.000	2,286	1.000	2,286	351	351
7/1/12-6/30/13	460,993	1.000	2,387	1.000	2,387	193	193
7/1/13-6/30/14	300,439	1.000	2,387	1.000	2,387	126	126
7/1/14-6/30/15	491,162	1.000	2,390	1.000	2,390	206	206
Total	5,246,754		25,488		25,488		

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	207
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14 excluding extremes:	203
Weighted average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	206
Weighted average of fiscal years 7/1/06-6/30/07 through 7/1/13-6/30/14:	186
Weighted average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14:	181
Selected 7/1/14-6/30/15 loss & ALAE cost:	206

Notes:

- Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgment.
- Column (2) not used for this line of business.
- Column (3) provided by City of Virginia Beach.
- Column (4) not used in this study.
- Column (6) equals Column (1) x Column (2) / Column (5).
- Column (7) equals Column (6) x the selected loss & ALAE cost trend of 0.00%.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015

Loss Cost Method, Loss & ALAE Limited to \$1,000,000

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Number of Vehicles (3)	Adjustment to FY2015 Exposure (4)	Adjusted Vehicles (3) x (4) (5)	Indicated Loss Cost (6)	Trended to FY2015 Loss Cost (7)
7/1/04-6/30/05	1,169,493	1.000	2,213	1.000	2,213	528	550
7/1/05-6/30/06	725,117	1.000	2,228	1.000	2,228	325	337
7/1/06-6/30/07	504,989	1.000	2,294	1.000	2,294	220	227
7/1/07-6/30/08	345,237	1.000	2,294	1.000	2,294	150	155
7/1/08-6/30/09	368,069	1.000	2,349	1.000	2,349	157	160
7/1/09-6/30/10	726,460	1.000	2,330	1.000	2,330	312	318
7/1/10-6/30/11	221,944	1.000	2,330	1.000	2,330	95	97
7/1/11-6/30/12	993,243	1.000	2,286	1.000	2,286	434	440
7/1/12-6/30/13	460,993	1.000	2,387	1.000	2,387	193	195
7/1/13-6/30/14	300,439	1.000	2,387	1.000	2,387	126	126
7/1/14-6/30/15	616,005	1.000	2,390	1.000	2,390	258	258
Total	6,431,989		25,488		25,488		

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	261
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14 excluding extremes:	245
Weighted average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	258
Weighted average of fiscal years 7/1/06-6/30/07 through 7/1/13-6/30/14:	214
Weighted average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14:	212
Indicated 7/1/14-6/30/15 loss & ALAE cost:	258

Notes:

Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgment.

Column (2) not used for this line of business.

Column (3) provided by City of Virginia Beach.

Column (4) not used in this study.

Column (6) equals Column (1) x Column (2) / Column (5).

Column (7) equals Column (6) x the selected loss & ALAE cost trend of 0.40%.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015

Loss Cost Method, Loss & ALAE Limited to \$2,000,000

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Number of Vehicles (3)	Adjustment to FY2015 Exposure (4)	Adjusted Vehicles (3) x (4) (5)	Indicated Loss Cost (6)	Trended to FY2015 Loss Cost (7)
7/1/04-6/30/05	1,169,493	1.000	2,213	1.000	2,213	528	561
7/1/05-6/30/06	725,117	1.000	2,228	1.000	2,228	325	343
7/1/06-6/30/07	504,989	1.000	2,294	1.000	2,294	220	231
7/1/07-6/30/08	345,237	1.000	2,294	1.000	2,294	150	157
7/1/08-6/30/09	368,069	1.000	2,349	1.000	2,349	157	162
7/1/09-6/30/10	726,460	1.000	2,330	1.000	2,330	312	321
7/1/10-6/30/11	221,944	1.000	2,330	1.000	2,330	95	98
7/1/11-6/30/12	993,243	1.000	2,286	1.000	2,286	434	442
7/1/12-6/30/13	460,993	1.000	2,387	1.000	2,387	193	195
7/1/13-6/30/14	300,439	1.000	2,387	1.000	2,387	126	127
7/1/14-6/30/15	628,791	1.000	2,390	1.000	2,390	263	263
Total	6,444,775		25,488		25,488		

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	264
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14 excluding extremes:	247
Weighted average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	261
Weighted average of fiscal years 7/1/06-6/30/07 through 7/1/13-6/30/14:	216
Weighted average of fiscal years 7/1/07-6/30/08 through 7/1/13-6/30/14:	214
Indicated 7/1/14-6/30/15 loss & ALAE cost:	261

Notes:

- Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgment.
- Column (2) not used for this line of business.
- Column (3) provided by City of Virginia Beach.
- Column (4) not used in this study.
- Column (6) equals Column (1) x Column (2) / Column (5).
- Column (7) equals Column (6) x the selected loss & ALAE cost trend of 0.60%.

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 Automobile Liability
 Data as of June 30, 2015
 Loss & ALAE Limited to \$250,000

Average Severity Method

Fiscal Years	Initial Estimated Ultimate Loss & ALAE (1)	Adjustment to FY2015 Benefit Level (2)	Selected Ultimate Claim Counts (3)	Indicated Average Severity (4)	Trended to FY2015 Average Severity (5)	Fitted Severity (6)	Estimated Ultimate Loss & ALAE (3) x (6) (7)	Indicated Loss & ALAE Cost (8)
7/1/04-6/30/05	555,682	1.000	112	4,961	4,961	5,971	668,731	302.2
7/1/05-6/30/06	725,117	1.000	99	7,324	7,324	5,971	591,111	265.3
7/1/06-6/30/07	504,989	1.000	106	4,764	4,764	5,971	632,907	275.9
7/1/07-6/30/08	345,237	1.000	87	3,968	3,968	5,971	519,461	226.4
7/1/08-6/30/09	368,069	1.000	71	5,184	5,184	5,971	423,928	180.5
7/1/09-6/30/10	471,457	1.000	59	7,991	7,991	5,971	352,278	151.2
7/1/10-6/30/11	221,944	1.000	59	3,762	3,762	5,971	352,278	151.2
7/1/11-6/30/12	801,665	1.000	76	10,548	10,548	5,971	453,782	198.5
7/1/12-6/30/13	460,993	1.000	61	7,550	7,550	5,971	364,584	152.7
7/1/13-6/30/14	300,439	1.000	66	4,524	4,524	5,971	396,532	166.1
7/1/14-6/30/15	491,162	1.000	80	6,127	6,127	5,971	478,674	200.3
Total	5,246,754		877				5,234,266	

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

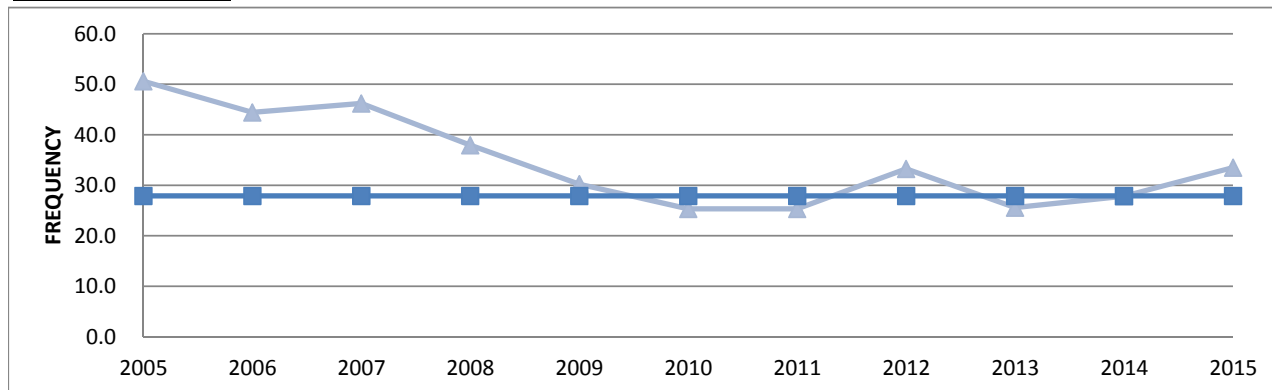
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	6,058
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14 excluding extremes:	5,783
Weighted average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	5,971
Weighted average of fiscal years 7/1/06-6/30/07 through 7/1/13-6/30/14:	5,935
Weighted average of fiscal years 7/1/08-6/30/09 through 7/1/13-6/30/14:	6,687
Selected 7/1/14-6/30/15 severity:	5,971

Notes:

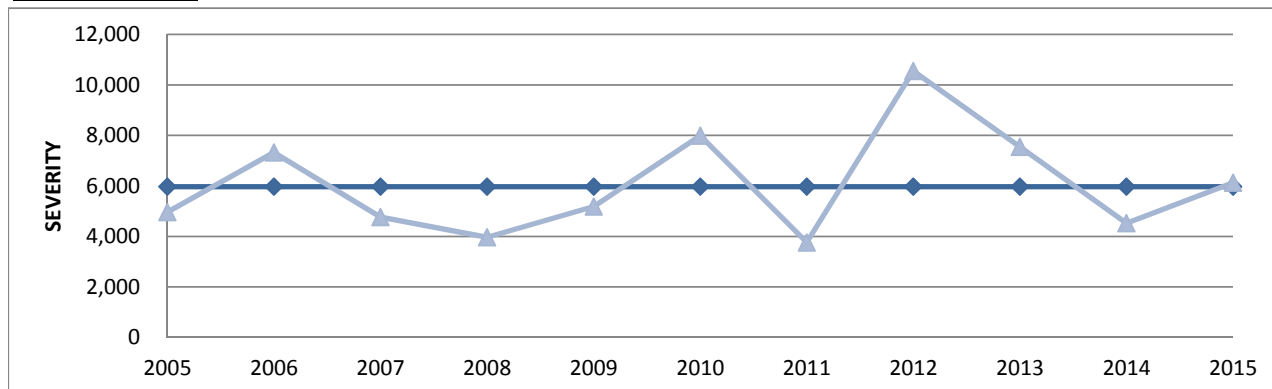
- Column (1) based on the reported and paid development methods from Exhibit 2, Sheet 2, Column (3) and Exhibit 2, Sheet 4, Column (3), respectively, and actuarial judgment.
- Column (2) not used for this line of business.
- Column (3) is from Exhibit 4, Sheet 1, Column (3).
- Column (4) equals Column (1) x Column (2) / Column (3).
- Column (5) equals Column (4) x the selected severity trend of 0.00%.
- Column (6) for all fiscal years is the selected fiscal year 7/1/14-6/30/15 severity, detrended at an annual rate of 0.00%, and adjusted to the appropriate benefit level (if applicable).
- Column (8) equals Column (7) / Number of Vehicles.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015

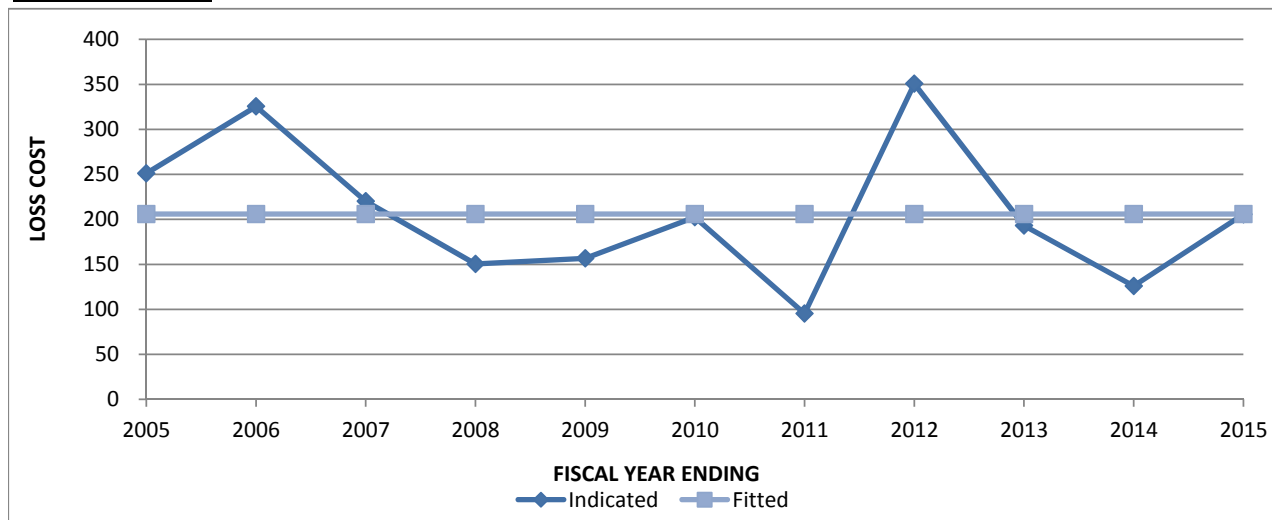
FREQUENCY TREND



SEVERITY TREND



LOSS COST TREND



Notes:

The selected frequency trend is 0.00%.

The selected severity trend is 0.00%.

The selected loss cost trend is 0.00%.

The severity and loss cost trends (for both Indicated and Fitted lines) are shown at a \$250,000 per occurrence limit.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015

Estimate of Ultimate Claim Counts

Fiscal Years	Reported Claim Development Method (1)	Reported Bornhuetter- Ferguson Method (2)	Selected Ultimate Claim Counts (3)	Implied Frequency (4)	Closed Claim Counts as of 6/30/15 (5)	Implied Open and IBNR Claim Counts (3) - (5) (6)
7/1/04-6/30/05	112	112	112	50.6	112	0
7/1/05-6/30/06	99	99	99	44.4	99	0
7/1/06-6/30/07	106	106	106	46.2	106	0
7/1/07-6/30/08	87	87	87	37.9	87	0
7/1/08-6/30/09	71	71	71	30.2	71	0
7/1/09-6/30/10	59	59	59	25.3	59	0
7/1/10-6/30/11	59	59	59	25.3	59	0
7/1/11-6/30/12	76	76	76	33.2	75	1
7/1/12-6/30/13	61	61	61	25.6	56	5
7/1/13-6/30/14	66	66	66	27.8	65	1
7/1/14-6/30/15	80	80	80	33.5	50	30
Total	877	877	877	34.4	839	38

Notes:

Columns (1) and (2) are from Exhibit 4, Sheet 2, Columns (3) and (8), respectively.
 Column (3) based on Columns (1) and (2) and actuarial judgment.
 Column (4) equals Column (3) / Number of Vehicles x 1,000.
 Column (5) provided by City of Virginia Beach.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015

Reported Claim Methods, excluding Claims Closed without Payment

Fiscal Years	Reported Claim Counts as of 6/30/15 (1)	Age to Ultimate Factors (2)	Estimated Ultimate Claim Counts (1) x (2) (3)	Number of Vehicles (4)	Indicated Frequency (3) / (4) x 1,000 (5)	Trended to FY2015 Frequency (5) x trend (6)	Fitted Frequency (7)	Reported Bornhuetter-Ferguson Method (8)
7/1/04-6/30/05	112	1.000	112	2,213	50.6	50.6	27.9	112
7/1/05-6/30/06	99	1.000	99	2,228	44.4	44.4	27.9	99
7/1/06-6/30/07	106	1.000	106	2,294	46.2	46.2	27.9	106
7/1/07-6/30/08	87	1.000	87	2,294	37.9	37.9	27.9	87
7/1/08-6/30/09	71	1.000	71	2,349	30.2	30.2	27.9	71
7/1/09-6/30/10	59	1.000	59	2,330	25.3	25.3	27.9	59
7/1/10-6/30/11	59	1.000	59	2,330	25.3	25.3	27.9	59
7/1/11-6/30/12	76	1.000	76	2,286	33.2	33.2	27.9	76
7/1/12-6/30/13	61	1.001	61	2,387	25.6	25.6	27.9	61
7/1/13-6/30/14	66	1.006	66	2,387	27.8	27.8	27.9	66
7/1/14-6/30/15	81	0.988	80	2,390	33.5	33.5	27.9	80
Total	877		877	25,488				877

AVERAGES AT THE 7/1/14-6/30/15 LEVEL

Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	34.7
Average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14 excluding extremes:	33.8
Weighted average of fiscal years 7/1/04-6/30/05 through 7/1/13-6/30/14:	34.5
Weighted average of fiscal years 7/1/08-6/30/09 through 7/1/13-6/30/14:	27.9
Selected 7/1/14-6/30/15 frequency:	27.9

Notes:

Columns (1) and (4) provided by City of Virginia Beach.
The age to ultimate factors in Column (2) are derived from Exhibit 6, Sheet 7.
The selected frequency trend used in Column (6) is 0.00%.
Column (7) for all fiscal years is the selected fiscal year 7/1/14-6/30/15 frequency, detrended at an annual rate of 0.00%.
Column (8) equals Column (1) + Column (4) x Column (7) x [1.0 - 1.0 / Column (2)] / 1,000].

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015

Summary of Loss Data Valued as of June 30, 2015

Fiscal Years	Retention	Reported Claim Counts (1)	Open Claim Counts (2)	Unlimited Loss & ALAE			Loss & ALAE Excess of \$250K		Loss & ALAE Excess of \$1M		Loss & ALAE Excess of \$2M	
				Paid (3)	Case Reserves (4)	Reported (5)	Paid (6)	Reported (7)	Paid (8)	Reported (9)	Paid (10)	Reported (11)
7/1/04-6/30/05	2,000,000	112	0	1,169,493	0	1,169,493	613,811	613,811	0	0	0	0
7/1/05-6/30/06	2,000,000	99	0	725,117	0	725,117	0	0	0	0	0	0
7/1/06-6/30/07	2,000,000	106	0	504,989	0	504,989	0	0	0	0	0	0
7/1/07-6/30/08	2,000,000	87	0	345,237	0	345,237	0	0	0	0	0	0
7/1/08-6/30/09	2,000,000	71	0	368,069	0	368,069	0	0	0	0	0	0
7/1/09-6/30/10	2,000,000	59	0	726,460	0	726,460	255,003	255,003	0	0	0	0
7/1/10-6/30/11	2,000,000	59	0	221,944	0	221,944	0	0	0	0	0	0
7/1/11-6/30/12	2,000,000	76	1	851,797	105,497	957,294	191,578	191,578	0	0	0	0
7/1/12-6/30/13	2,000,000	61	5	289,523	66,915	356,438	0	0	0	0	0	0
7/1/13-6/30/14	2,000,000	66	1	231,421	5,018	236,439	0	0	0	0	0	0
7/1/14-6/30/15	2,000,000	81	31	206,362	52,754	259,117	0	0	0	0	0	0
Total		877	38	5,640,412	230,185	5,870,597	1,060,392	1,060,392	0	0	0	0

Fiscal Years	Loss & ALAE Limited to \$250,000			Loss & ALAE Limited to \$1,000,000			Loss & ALAE Limited to \$2,000,000			Loss & ALAE Limited to Retention		
	Paid (12)	Case Reserves (13)	Reported (14)	Paid (15)	Case Reserves (16)	Reported (17)	Paid (18)	Case Reserves (19)	Reported (20)	Paid (21)	Case Reserves (22)	Reported (23)
7/1/04-6/30/05	555,682	0	555,682	1,169,493	0	1,169,493	1,169,493	0	1,169,493	1,169,493	0	1,169,493
7/1/05-6/30/06	725,117	0	725,117	725,117	0	725,117	725,117	0	725,117	725,117	0	725,117
7/1/06-6/30/07	504,989	0	504,989	504,989	0	504,989	504,989	0	504,989	504,989	0	504,989
7/1/07-6/30/08	345,237	0	345,237	345,237	0	345,237	345,237	0	345,237	345,237	0	345,237
7/1/08-6/30/09	368,069	0	368,069	368,069	0	368,069	368,069	0	368,069	368,069	0	368,069
7/1/09-6/30/10	471,457	0	471,457	726,460	0	726,460	726,460	0	726,460	726,460	0	726,460
7/1/10-6/30/11	221,944	0	221,944	221,944	0	221,944	221,944	0	221,944	221,944	0	221,944
7/1/11-6/30/12	660,219	105,497	765,716	851,797	105,497	957,294	851,797	105,497	957,294	851,797	105,497	957,294
7/1/12-6/30/13	289,523	66,915	356,438	289,523	66,915	356,438	289,523	66,915	356,438	289,523	66,915	356,438
7/1/13-6/30/14	231,421	5,018	236,439	231,421	5,018	236,439	231,421	5,018	236,439	231,421	5,018	236,439
7/1/14-6/30/15	206,362	52,754	259,117	206,362	52,754	259,117	206,362	52,754	259,117	206,362	52,754	259,117
Total	4,580,020	230,185	4,810,205	5,640,412	230,185	5,870,597	5,640,412	230,185	5,870,597	5,640,412	230,185	5,870,597

Notes:
Columns (1) through (23) provided by City of Virginia Beach.
* Reported claim count excludes claims closed without payment.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of June 30, 2015
Loss & ALAE Limited to Retention

Detail of Large Losses with Combined Loss & ALAE Greater than \$100,000

Fiscal Year	Date of Loss	Claim Number	Claim Status	Unlimited Loss & ALAE		Retention	Loss & ALAE Limited to Retention	
				Paid	Reported		Paid	Reported
2005	4/11/2005	VA074720	Closed	863,811	863,811	2,000,000	863,811	863,811
2006	12/29/2005	VA075741	Closed	208,009	208,009	2,000,000	208,009	208,009
2006	1/19/2006	VA075766	Closed	224,650	224,650	2,000,000	224,650	224,650
2010	6/28/2010	VA079404	Closed	505,003	505,003	2,000,000	505,003	505,003
2012	10/28/2011	VA080397	Closed	441,578	441,578	2,000,000	441,578	441,578
2012	4/24/2012	VA080678	Open	11,152	116,649	2,000,000	11,152	116,649

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of April 30, 2015
Reported Loss & ALAE Limited to \$250,000

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-4/30/92								458,266	458,266	458,266	458,266	458,266	458,266	458,266	458,266
5/1/92-4/30/93							453,385	453,385	453,385	453,385	453,385	453,385	453,385	453,385	453,385
5/1/93-4/30/94						542,668	543,753	543,453	543,453	543,453	543,453	543,453	543,453	543,453	543,453
5/1/94-4/30/95					177,098	177,248	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098
5/1/95-4/30/96				212,638	391,057	358,762	358,762	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817
5/1/96-4/30/97			318,805	581,945	522,807	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657
5/1/97-4/30/98		332,859	389,746	336,654	336,654	337,526	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090
5/1/98-4/30/99	207,629	366,181	352,165	377,665	376,463	376,463	376,463	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426
5/1/99-4/30/00	249,675	518,825	508,577	508,837	508,837	507,455	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955
5/1/00-4/30/01	327,372	479,279	479,497	447,582	446,718	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218
5/1/01-4/30/02	400,789	405,580	495,456	476,619	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107
5/1/02-4/30/03	454,181	494,587	564,415	786,159	761,491	761,491	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881
5/1/03-4/30/04	310,700	373,043	667,707	754,556	755,556	754,556	754,556	754,556	754,556	754,556	754,556	754,556	754,556	754,556	754,556
5/1/04-4/30/05	284,752	612,694	672,792	636,992	588,055	588,055	588,055	588,055	588,055	588,055	588,055	588,055	588,055	588,055	588,055
5/1/05-4/30/06	360,608	736,297	818,920	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632
5/1/06-4/30/07	255,864	396,457	381,866	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622
5/1/07-4/30/08	448,690	489,864	497,033	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070
5/1/08-4/30/09	297,369	306,153	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234
5/1/09-4/30/10	182,965	245,038	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538
5/1/10-4/30/11	290,002	547,684	547,374	534,874	512,717	512,717	512,717	512,717	512,717	512,717	512,717	512,717	512,717	512,717	512,717
5/1/11-4/30/12	342,261	828,776	879,026	789,026	789,026	789,026	789,026	789,026	789,026	789,026	789,026	789,026	789,026	789,026	789,026
5/1/12-4/30/13	255,935	308,733	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453
5/1/13-4/30/14	227,842	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554
5/1/14-4/30/15	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647

Accident Period	Selected														
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-4/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-4/30/93								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-4/30/94						1.002	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-4/30/95					1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-4/30/96				1.839	0.917	1.000	0.992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-4/30/97			1.825	0.898	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-4/30/98		1.171	0.864	1.000	1.003	0.996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-4/30/99	1.764	0.962	1.072	0.997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-4/30/00	2.078	0.980	1.001	1.000	0.997	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/00-4/30/01	1.464	1.000	0.933	0.998	0.943	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-4/30/02	1.012	1.222	0.962	0.995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/02-4/30/03	1.089	1.141	1.393	0.969	1.000	0.767	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/03-4/30/04	1.201	1.790	1.130	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/04-4/30/05	2.152	1.098	0.947	0.923	1.000	1.000	1.000	1.000	0.957	1.000	1.000	1.000	1.000	1.000	1.000
5/1/05-4/30/06	2.042	1.112	0.978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/06-4/30/07	1.549	0.963	0.934	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/07-4/30/08	1.092	1.015	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/08-4/30/09	1.030	1.046	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/09-4/30/10	1.339	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/10-4/30/11	1.889	0.999	0.977	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959
5/1/11-4/30/12	2.421	1.061	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.898
5/1/12-4/30/13	1.206	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193
5/1/13-4/30/14	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196
All Years Average	1.533	1.110	1.058	1.036	0.991	0.985	0.999	1.000	0.997	1.000	1.000	1.000	1.000	1.000	1.000
All Years Weighted	1.508	1.100	1.039	1.003	0.992	0.977	1.000	1.000	0.997	1.000	1.000	1.000	1.000	1.000	1.000
5 Years Weighted	1.696	1.056	0.961	0.989	1.000	1.000	1.000	1.000	0.992	1.000	1.000	1.000	1.000	1.000	1.000
3 Years Weighted	1.707	1.065	0.939	0.980	1.000	1.000	1.000	1.000	0.988	1.000	1.000	1.000	1.000	1.000	1.000
Industry	1.366	1.139	1.066	1.028	1.008	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Prior (4/30/13)	1.769	1.101	1.042	1.003	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Notes:
Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of April 30, 2015
Paid Loss & ALAE Limited to \$250,000

Accident Period	Evaluation Date in Months															
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	
5/1/91-4/30/92								458,266	458,266	458,266	458,266	458,266	458,266	458,266	458,266	
5/1/92-4/30/93							453,385	453,385	453,385	453,385	453,385	453,385	453,385	453,385	453,385	
5/1/93-4/30/94						542,668	543,453	543,453	543,453	543,453	543,453	543,453	543,453	543,453	543,453	
5/1/94-4/30/95					177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	
5/1/95-4/30/96				211,333	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	
5/1/96-4/30/97			313,795	461,592	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	
5/1/97-4/30/98		332,846	336,026	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	
5/1/98-4/30/99	195,475	271,699	303,310	372,192	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	
5/1/99-4/30/00	187,663	497,066	506,566	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	
5/1/00-4/30/01	203,388	373,938	421,194	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	
5/1/01-4/30/02	220,885	398,112	412,627	420,439	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	
5/1/02-4/30/03	241,410	371,370	428,720	527,470	578,451	582,531	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881	
5/1/03-4/30/04	209,760	360,806	624,394	754,556	754,556	754,556	754,556	754,556	754,556	754,556	754,556	754,556	754,556	754,556	754,556	
5/1/04-4/30/05	192,790	287,853	535,444	535,492	537,055	537,055	537,055	537,055	537,055	537,055	537,055	537,055	537,055	537,055	537,055	
5/1/05-4/30/06	253,316	433,972	480,091	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	
5/1/06-4/30/07	191,843	325,944	356,366	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	
5/1/07-4/30/08	317,412	446,592	492,033	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	
5/1/08-4/30/09	208,568	256,299	320,134	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	
5/1/09-4/30/10	120,488	245,038	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	
5/1/10-4/30/11	158,045	278,845	512,299	512,717	512,717	512,717	512,717	512,717	512,717	512,717	512,717	512,717	512,717	512,717	512,717	
5/1/11-4/30/12	162,421	562,474	600,121	603,559	603,559	603,559	603,559	603,559	603,559	603,559	603,559	603,559	603,559	603,559	603,559	
5/1/12-4/30/13	157,675	220,793	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	
5/1/13-4/30/14	156,222	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	
5/1/14-4/30/15	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	

Accident Period	Evaluation Date in Months														
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-4/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-4/30/93								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-4/30/94						1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-4/30/95					1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-4/30/96				1.684	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-4/30/97			1.471	1.132	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-4/30/98		1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-4/30/99	1.390	1.116	1.227	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-4/30/00	2.649	1.019	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/00-4/30/01	1.839	1.126	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-4/30/02	1.802	1.036	1.019	1.128	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/02-4/30/03	1.538	1.154	1.230	1.097	1.007	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/03-4/30/04	1.720	1.731	1.208	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/04-4/30/05	1.493	1.860	1.000	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/05-4/30/06	1.713	1.106	1.615	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/06-4/30/07	1.699	1.093	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/07-4/30/08	1.407	1.102	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/08-4/30/09	1.229	1.249	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/09-4/30/10	2.034	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/10-4/30/11	1.764	1.837	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/11-4/30/12	3.463	1.067	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/12-4/30/13	1.400	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370
5/1/13-4/30/14	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734
All Years Average	1.805	1.242	1.111	1.066	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
All Years Weighted	1.763	1.214	1.109	1.044	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Years Weighted	2.090	1.267	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 Years Weighted	2.213	1.332	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Industry	1.972	1.383	1.212	1.105	1.044	1.019	1.009	1.004	1.003	1.001	1.001	1.001	1.001	1.001	1.003
Prior (4/30/13)	2.157	1.224	1.116	1.012	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	1.784	1.214	1.060	1.010	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Age to Ultimate	2.321	1.301	1.071	1.011	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Notes:
Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of April 30, 2015
Reported Loss & ALAE Limited to \$1,000,000

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-4/30/92								568,413	568,413	568,413	568,413	568,413	568,413	568,413	568,413
5/1/92-4/30/93							701,606	701,606	701,606	701,606	701,606	701,606	701,606	701,606	701,606
5/1/93-4/30/94						1,292,668	1,293,753	1,293,453	1,293,453	1,293,453	1,293,453	1,293,453	1,293,453	1,293,453	1,293,453
5/1/94-4/30/95					177,098	177,248	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098
5/1/95-4/30/96				212,638				358,762	358,762	355,817	355,817	355,817	355,817	355,817	355,817
5/1/96-4/30/97			318,805	581,945	522,807	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657
5/1/97-4/30/98		332,859	389,746	336,654	336,654	337,526	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090
5/1/98-4/30/99	207,629	366,181	352,165	377,665	376,463	376,463	376,463	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426
5/1/99-4/30/00	249,675	518,825	508,577	508,837	508,837	507,455	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955
5/1/00-4/30/01	327,372	479,279	479,497	447,582	446,718	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218
5/1/01-4/30/02	400,789	405,580	495,456	476,619	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107
5/1/02-4/30/03	454,181	494,587	564,415	1,209,491	1,184,822	1,184,822	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881
5/1/03-4/30/04	310,700	373,043	1,417,707	1,504,556	1,505,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556
5/1/04-4/30/05	284,752	1,362,694	1,422,792	1,250,803	1,201,866	1,201,866	1,201,866	1,201,866	1,201,866	1,201,866	1,201,866	1,176,366	1,176,366	1,176,366	1,176,366
5/1/05-4/30/06	360,608	907,297	818,920	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632
5/1/06-4/30/07	255,864	396,457	381,866	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622
5/1/07-4/30/08	448,690	489,864	497,033	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070
5/1/08-4/30/09	297,369	306,153	320,234	320,334	320,334	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234
5/1/09-4/30/10	182,965	245,038	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538
5/1/10-4/30/11	290,002	552,684	802,377	789,877	767,720										
5/1/11-4/30/12	342,261	1,020,353	1,070,604	980,604											
5/1/12-4/30/13	255,935	308,733	368,453												
5/1/13-4/30/14	227,842	272,554													
5/1/14-4/30/15	237,647														

Accident Period	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-4/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-4/30/93								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-4/30/94						1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-4/30/95					1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-4/30/96				1.839	0.917	1.000	0.992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-4/30/97			1.825	0.898	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-4/30/98		1.171	0.864	1.000	1.003	0.996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-4/30/99	1.764	0.962	1.072	0.997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-4/30/00	2.078	0.980	1.001	1.000	0.997	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/00-4/30/01	1.464	1.000	0.933	0.998	0.943	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-4/30/02	1.012	1.222	0.962	0.995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/02-4/30/03	1.089	1.141	2.143	0.980	1.000	0.493	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/03-4/30/04	1.201	3.800	1.061	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/04-4/30/05	4.786	1.044	0.879	0.961	1.000	1.000	1.000	1.000	0.979	1.000	1.000	1.000	1.000	1.000	1.000
5/1/05-4/30/06	2.516	0.903	0.978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/06-4/30/07	1.549	0.963	0.934	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/07-4/30/08	1.092	1.015	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/08-4/30/09	1.030	1.046	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/09-4/30/10	1.339	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/10-4/30/11	1.906	1.452	0.984	0.972											
5/1/11-4/30/12	2.981	1.049	0.916												
5/1/12-4/30/13	1.206	1.193													
5/1/13-4/30/14	1.196														
All Years Average	1.763	1.246	1.098	1.040	0.991	0.968	0.999	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
All Years Weighted	1.736	1.184	1.060	1.002	0.994	0.942	1.000	1.000	0.997	1.000	1.000	1.000	1.000	1.000	1.000
5 Years Weighted	1.847	1.154	0.967	0.990	1.000	1.000	1.000	1.000	0.994	1.000	1.000	1.000	1.000	1.000	1.000
3 Years Weighted	1.939	1.191	0.952	0.984	1.000	1.000	1.000	1.000	0.993	1.000	1.000	1.000	1.000	1.000	1.000
Industry	1.403	1.159	1.078	1.036	1.012	1.004	1.002	1.001	1.000	1.001	1.001	1.000	1.000	1.000	1.002
Prior (4/30/13)	1.952	1.203	1.060	1.004	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Selected	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	1.847	1.191	1.060	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Age to Ultimate	2.341	1.267	1.064	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Notes:
Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
Analysis of Unpaid Loss & LAE at June 30, 2015
Automobile Liability
Data as of April 30, 2015
Paid Loss & LAE Limited to \$1,000,000

Accident Period	Evaluation Date in Months															
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	
5/1/91-4/30/92								568,413	568,413	568,413	568,413	568,413	568,413	568,413	568,413	
5/1/92-4/30/93							701,606	701,606	701,606	701,606	701,606	701,606	701,606	701,606	701,606	
5/1/93-4/30/94						1,292,668	1,293,453	1,293,453	1,293,453	1,293,453	1,293,453	1,293,453	1,293,453	1,293,453	1,293,453	
5/1/94-4/30/95					177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	
5/1/95-4/30/96				211,333	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	
5/1/96-4/30/97			313,795	461,592	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	
5/1/97-4/30/98		332,846	336,026	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	
5/1/98-4/30/99	195,475	271,699	303,310	372,192	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	
5/1/99-4/30/00	187,663	497,066	506,566	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	
5/1/00-4/30/01	203,388	373,938	421,194	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	
5/1/01-4/30/02	220,885	398,112	412,627	420,439	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	
5/1/02-4/30/03	241,410	371,370	428,720	527,470	578,451	582,531	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881	
5/1/03-4/30/04	209,760	360,806	1,374,394	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	1,504,556	
5/1/04-4/30/05	192,790	287,853	1,149,256	1,149,303	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	
5/1/05-4/30/06	253,316	433,972	480,091	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	
5/1/06-4/30/07	191,843	325,944	356,366	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	
5/1/07-4/30/08	317,412	446,592	492,033	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	
5/1/08-4/30/09	208,568	256,299	320,134	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	
5/1/09-4/30/10	120,488	245,038	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	
5/1/10-4/30/11	158,045	278,845	767,302	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	
5/1/11-4/30/12	162,421	754,052	791,699	795,137	795,137	795,137	795,137	795,137	795,137	795,137	795,137	795,137	795,137	795,137	795,137	
5/1/12-4/30/13	157,675	220,793	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	
5/1/13-4/30/14	156,222	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	
5/1/14-4/30/15	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	
Accident Period	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT	
5/1/91-4/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/92-4/30/93							1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/93-4/30/94					1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/94-4/30/95					1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/95-4/30/96				1.684	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/96-4/30/97			1.471	1.132	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/97-4/30/98		1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/98-4/30/99	1.390	1.116	1.227	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/99-4/30/00	2.649	1.019	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/00-4/30/01	1.839	1.126	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/01-4/30/02	1.802	1.036	1.019	1.128	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/02-4/30/03	1.538	1.154	1.230	1.097	1.007	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/03-4/30/04	1.720	3.809	1.095	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/04-4/30/05	1.493	3.993	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/05-4/30/06	1.713	1.106	1.615	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/06-4/30/07	1.699	1.093	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/07-4/30/08	1.407	1.102	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/08-4/30/09	1.229	1.249	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/09-4/30/10	2.034	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/10-4/30/11	1.764	2.752	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5/1/11-4/30/12	4.643	1.050	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	
5/1/12-4/30/13	1.400	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	
5/1/13-4/30/14	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	
All Years Average	1.878	1.562	1.104	1.066	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
All Years Weighted	1.823	1.484	1.087	1.036	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5 Years Weighted	2.344	1.383	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
3 Years Weighted	2.615	1.485	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Industry	2.150	1.449	1.239	1.117	1.049	1.021	1.010	1.005	1.003	1.001	1.001	1.001	1.001	1.001	1.004	
Prior (4/30/13)	2.473	1.556	1.126	1.016	1.003	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	
Selected	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT	
Age to Age	1.851	1.484	1.087	1.014	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Age to Ultimate	3.031	1.638	1.104	1.016	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	

Notes:
Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 Automobile Liability
 Data as of April 30, 2015
 Reported Loss & ALAE Limited to \$2,000,000

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-4/30/92								568,413	568,413	568,413	568,413	568,413	568,413	568,413	568,413
5/1/92-4/30/93							701,606	701,606	701,606	701,606	701,606	701,606	701,606	701,606	701,606
5/1/93-4/30/94						1,784,025	1,785,110	1,784,810	1,784,810	1,784,810	1,784,810	1,784,810	1,784,810	1,784,810	1,784,810
5/1/94-4/30/95					177,098	177,248	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098
5/1/95-4/30/96				212,638	177,098	177,248	358,762	358,762	355,817	355,817	355,817	355,817	355,817	355,817	355,817
5/1/96-4/30/97			318,805	581,945	522,807	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657
5/1/97-4/30/98		332,859	389,746	336,654	336,654	337,526	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090
5/1/98-4/30/99	207,629	366,181	352,165	377,665	376,463	376,463	376,463	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426
5/1/99-4/30/00	249,675	518,825	508,577	508,837	508,837	507,455	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955
5/1/00-4/30/01	327,372	479,279	479,497	447,582	446,718	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218
5/1/01-4/30/02	400,789	405,580	495,456	476,619	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107
5/1/02-4/30/03	454,181	494,587	564,415	1,209,491	1,184,822	1,184,822	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881
5/1/03-4/30/04	310,700	373,043	1,663,455	1,750,303	1,751,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303
5/1/04-4/30/05	284,752	1,372,794	1,461,703	1,250,803	1,201,866	1,201,866	1,201,866	1,201,866	1,201,866	1,201,866	1,176,366	1,176,366	1,176,366	1,176,366	1,176,366
5/1/05-4/30/06	360,608	907,297	818,920	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632	800,632
5/1/06-4/30/07	255,864	396,457	381,866	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622
5/1/07-4/30/08	448,690	489,864	497,033	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070	502,070
5/1/08-4/30/09	297,369	306,153	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234
5/1/09-4/30/10	182,965	245,038	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538
5/1/10-4/30/11	290,002	552,684	802,377	789,877	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720
5/1/11-4/30/12	342,261	1,020,353	1,070,604	980,604	980,604	980,604	980,604	980,604	980,604	980,604	980,604	980,604	980,604	980,604	980,604
5/1/12-4/30/13	255,935	308,733	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453	368,453
5/1/13-4/30/14	227,842	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554	272,554
5/1/14-4/30/15	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647	237,647

Accident Period	Evaluation Date in Months														
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-4/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-4/30/93								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-4/30/94						1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-4/30/95					1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-4/30/96				1.839	0.917	1.000	0.992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-4/30/97			1.825	0.898	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-4/30/98		1.171	0.864	1.000	1.003	0.996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-4/30/99	1.764	0.962	1.072	0.997	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-4/30/00	2.078	0.980	1.001	1.000	0.997	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/00-4/30/01	1.464	1.000	0.933	0.998	0.943	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-4/30/02	1.012	1.222	0.962	0.995	1.000	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/02-4/30/03	1.089	1.141	2.143	0.980	1.000	0.493	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/03-4/30/04	1.201	4.459	1.052	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/04-4/30/05	4.821	1.065	0.856	0.961	1.000	1.000	1.000	1.000	1.000	0.979	1.000	1.000	1.000	1.000	1.000
5/1/05-4/30/06	2.516	0.903	0.978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/06-4/30/07	1.549	0.963	0.934	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/07-4/30/08	1.092	1.015	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/08-4/30/09	1.030	1.046	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/09-4/30/10	1.339	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/10-4/30/11	1.906	1.452	0.984	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972	0.972
5/1/11-4/30/12	2.981	1.049	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916	0.916
5/1/12-4/30/13	1.206	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193
5/1/13-4/30/14	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196	1.196
All Years Average	1.765	1.289	1.096	1.040	0.991	0.968	0.999	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000
All Years Weighted	1.738	1.216	1.054	1.002	0.994	0.946	1.000	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000
5 Years Weighted	1.847	1.154	0.967	0.990	1.000	1.000	1.000	1.000	0.995	1.000	1.000	1.000	1.000	1.000	1.000
3 Years Weighted	1.939	1.191	0.952	0.984	1.000	1.000	1.000	1.000	0.993	1.000	1.000	1.000	1.000	1.000	1.000
Industry	1.406	1.162	1.079	1.036	1.012	1.005	1.002	1.001	1.000	1.001	1.001	1.001	1.001	1.001	1.002
Prior (4/30/13)	1.952	1.240	1.062	1.004	1.002	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Selected	Evaluation Date in Months														
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	1.847	1.191	1.062	1.003	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Age to Ultimate	2.347	1.271	1.067	1.005	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Notes:
 Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of April 30, 2015
Paid Loss & ALAE Limited to \$2,000,000

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-4/30/92								568,413	568,413	568,413	568,413	568,413	568,413	568,413	568,413
5/1/92-4/30/93							701,606	701,606	701,606	701,606	701,606	701,606	701,606	701,606	701,606
5/1/93-4/30/94						1,784,025	1,784,810	1,784,810	1,784,810	1,784,810	1,784,810	1,784,810	1,784,810	1,784,810	1,784,810
5/1/94-4/30/95					177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098	177,098
5/1/95-4/30/96				211,333	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817	355,817
5/1/96-4/30/97			313,795	461,592	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657	522,657
5/1/97-4/30/98		332,846	336,026	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090	336,090
5/1/98-4/30/99	195,475	271,699	303,310	372,192	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426	376,426
5/1/99-4/30/00	187,663	497,066	506,566	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955	506,955
5/1/00-4/30/01	203,388	373,938	421,194	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218	421,218
5/1/01-4/30/02	220,885	398,112	412,627	420,439	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107	474,107
5/1/02-4/30/03	241,410	371,370	428,720	527,470	578,451	582,531	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881	583,881
5/1/03-4/30/04	209,760	360,806	1,620,142	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303	1,750,303
5/1/04-4/30/05	192,790	287,853	1,149,256	1,149,303	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866	1,150,866
5/1/05-4/30/06	253,316	433,972	480,091	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567	775,567
5/1/06-4/30/07	191,843	325,944	356,366	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622	356,622
5/1/07-4/30/08	317,412	446,592	492,033	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070	492,070
5/1/08-4/30/09	208,568	256,299	320,134	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234	320,234
5/1/09-4/30/10	120,488	245,038	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538	245,538
5/1/10-4/30/11	158,045	278,845	767,302	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720	767,720
5/1/11-4/30/12	162,421	754,052	791,699	795,137	795,137	795,137	795,137	795,137	795,137	795,137	795,137	795,137	795,137	795,137	795,137
5/1/12-4/30/13	157,675	220,793	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538	302,538
5/1/13-4/30/14	156,222	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858	270,858
5/1/14-4/30/15	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928	187,928

Accident Period	Evaluation Date in Months														
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-4/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-4/30/93								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-4/30/94						1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-4/30/95					1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-4/30/96				1.684	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-4/30/97			1.471	1.132	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-4/30/98		1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-4/30/99	1.390	1.116	1.227	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-4/30/00	2.649	1.019	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/00-4/30/01	1.839	1.126	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-4/30/02	1.802	1.036	1.019	1.128	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/02-4/30/03	1.538	1.154	1.230	1.097	1.007	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/03-4/30/04	1.720	4.490	1.080	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/04-4/30/05	1.493	3.993	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/05-4/30/06	1.713	1.106	1.615	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/06-4/30/07	1.699	1.093	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/07-4/30/08	1.407	1.102	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/08-4/30/09	1.229	1.249	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/09-4/30/10	2.034	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/10-4/30/11	1.764	2.752	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/11-4/30/12	4.643	1.050	1.004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/12-4/30/13	1.400	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370	1.370
5/1/13-4/30/14	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.734
All Years Average	1.878	1.604	1.103	1.066	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
All Years Weighted	1.823	1.526	1.084	1.035	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5 Years Weighted	2.344	1.383	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3 Years Weighted	2.615	1.485	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Industry	2.156	1.451	1.239	1.117	1.048	1.021	1.010	1.005	1.003	1.001	1.001	1.001	1.001	1.001	1.004
Prior (4/30/13)	2.473	1.606	1.127	1.018	1.003	1.002	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000

Selected	Evaluation Date in Months														
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
Age to Age	1.851	1.526	1.094	1.016	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Age to Ultimate	3.147	1.700	1.114	1.019	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Notes:
Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
Analysis of Unpaid Loss & ALAE at June 30, 2015
Automobile Liability
Data as of April 30, 2015
Reported Claim Counts excluding Claims Closed with no Payment

Accident Period	Evaluation Date in Months														
	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
5/1/91-4/30/92								76	76	76	76	76	76	76	76
5/1/92-4/30/93							84	84	84	84	84	84	84	84	84
5/1/93-4/30/94						104	106	104	104	104	105	104	104	104	104
5/1/94-4/30/95					80	81	80	80	80	80	80	80	80	80	80
5/1/95-4/30/96				109	112	110	110	110	110	110	110	110	110	110	110
5/1/96-4/30/97			113	114	114	113	113	113	113	113	113	113	113	113	113
5/1/97-4/30/98		104	107	104	104	104	105	105	105	105	105	105	105	105	105
5/1/98-4/30/99	99	114	107	107	106	107	109	109	109	109	109	109	109	109	109
5/1/99-4/30/00	128	106	107	108	108	106	106	106	106	106	106	106	106	106	106
5/1/00-4/30/01	121	115	113	113	113	112	112	112	112	113	113	113	113	113	113
5/1/01-4/30/02	143	133	135	134	133	133	133	133	133	133	133	133	133	133	133
5/1/02-4/30/03	121	102	107	107	107	107	107	107	107	107	107	107	107	107	107
5/1/03-4/30/04	112	117	116	116	117	116	116	116	116	116	116	116	116	116	116
5/1/04-4/30/05	108	106	112	111	111	112	112	112	112	111	111	111	111	111	111
5/1/05-4/30/06	114	108	110	110	110	110	110	110	110	110	110	110	110	110	110
5/1/06-4/30/07	105	97	97	96	96	96	96	96	96	96	96	96	96	96	96
5/1/07-4/30/08	105	95	96	96	96	96	96	96	96	96	96	96	96	96	96
5/1/08-4/30/09	96	71	72	73	73	73	73	73	73	73	73	73	73	73	73
5/1/09-4/30/10	58	57	57	57	57	57	57	57	57	57	57	57	57	57	57
5/1/10-4/30/11	68	67	66	66	66	66	66	66	66	66	66	66	66	66	66
5/1/11-4/30/12	76	75	73	73	73	73	73	73	73	73	73	73	73	73	73
5/1/12-4/30/13	63	62	62	62	62	62	62	62	62	62	62	62	62	62	62
5/1/13-4/30/14	71	69	69	69	69	69	69	69	69	69	69	69	69	69	69
5/1/14-4/30/15	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69

Accident Period	Evaluation Date in Months														
	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-ULT
5/1/91-4/30/92								1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/92-4/30/93							1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/93-4/30/94							1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/94-4/30/95					1.013	0.988	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/95-4/30/96				1.028	0.982	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/96-4/30/97			1.009	1.000	0.991	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/97-4/30/98		1.029	0.972	1.000	1.000	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/98-4/30/99	1.152	0.939	1.000	0.991	1.009	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/99-4/30/00	0.828	1.009	1.009	1.000	0.981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/00-4/30/01	0.950	0.983	1.000	1.000	0.991	1.000	1.000	1.000	1.009	1.000	1.000	1.000	1.000	1.000	1.000
5/1/01-4/30/02	0.930	1.015	0.993	0.993	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/02-4/30/03	0.843	1.049	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/03-4/30/04	1.045	0.991	1.000	1.009	0.991	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/04-4/30/05	0.981	1.057	0.991	1.000	1.009	1.000	1.000	1.000	1.000	0.991	1.000	1.000	1.000	1.000	1.000
5/1/05-4/30/06	0.947	1.019	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/06-4/30/07	0.924	1.000	0.990	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/07-4/30/08	0.905	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/08-4/30/09	0.740	1.014	1.014	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/09-4/30/10	0.983	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/10-4/30/11	0.985	0.985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/11-4/30/12	0.987	0.973	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/12-4/30/13	0.984	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/13-4/30/14	0.972	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5/1/14-4/30/15	0.972	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
All Years Average	0.947	1.005	0.999	1.001	0.998	1.002	0.999	1.000	1.000	1.001	0.999	1.000	1.000	1.000	1.000
All Years Weighted	0.941	1.005	0.998	1.001	0.998	1.002	0.999	1.000	1.000	1.001	0.999	1.000	1.000	1.000	1.000
5 Years Weighted	0.982	0.994	1.003	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000
3 Years Weighted	0.981	0.985	1.000	1.000	1.000	1.000	1.000	1.000	0.997	1.000	1.000	1.000	1.000	1.000	1.000
Prior (4/30/13)	0.985	1.007	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Selected															
Age to Age	0.982	1.005	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Age to Ultimate	0.988	1.006	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Notes:
Not all averages are shown. Selected age to age factors are based on a review of all averages and actuarial judgment.

City of Virginia Beach
 Analysis of Unpaid Loss & ALAE at June 30, 2015
 Automobile Liability
 Data as of June 30, 2015
 Loss & ALAE Limited to Retention

Comparison of Expected Development to Actual Development

SECTION I - REPORTED LOSS & ALAE

Fiscal Years	Selected Ultimate Loss & ALAE as of 4/30/13 (1)	Actual Reported Loss & ALAE as of		Expected Percent Reported as of		Actual Change in Reported 4/13 - 6/15 (2b) - (2a) (4)	Expected Change in Reported 4/13 - 6/15 (5)	Actual Minus Expected (4) - (5) (6)	Selected Ultimate Loss & ALAE as of 6/30/15 (7)	Change in Ultimate Loss & ALAE (8)
		4/30/13	6/30/15	4/30/13	6/30/15					
		(2a)	(2b)	(3a)	(3b)					
7/1/04-6/30/05	1,207,148	1,194,993	1,169,493	100.0%	100.0%	(25,500)	12,155	(37,655)	1,169,493	(37,655)
7/1/05-6/30/06	757,562	750,182	725,117	99.9%	100.0%	(25,065)	7,379	(32,444)	725,117	(32,444)
7/1/06-6/30/07	504,989	504,989	504,989	99.8%	100.0%	0	0	0	504,989	0
7/1/07-6/30/08	363,478	355,237	345,237	99.7%	99.9%	(10,000)	5,716	(15,716)	345,237	(18,242)
7/1/08-6/30/09	368,069	368,069	368,069	99.5%	99.8%	0	0	0	368,069	0
7/1/09-6/30/10	726,460	726,460	726,460	98.8%	99.7%	0	0	0	726,460	0
7/1/10-6/30/11	290,604	256,601	221,944	91.7%	99.5%	(34,657)	31,969	(66,626)	221,944	(68,661)
7/1/11-6/30/12	1,312,510	1,075,223	957,294	70.7%	99.1%	(117,929)	230,258	(348,187)	993,243	(319,267)
7/1/12-6/30/13	807,439	194,995	356,438	30.7%	93.4%	161,443	553,771	(392,328)	460,993	(346,446)
7/1/13-6/30/14	869,757	0	236,439	0.0%	75.3%	236,439	654,693	(418,254)	300,439	(569,318)
7/1/14-6/30/15	883,913 *	0	259,117	0.0%	38.6%	259,117	340,815	(81,698)	701,416	(182,497)
Total All Years	8,091,931	5,426,749	5,870,597			443,847	1,836,756	(1,392,908)	6,517,400	(1,574,531)
Exclude FY14 & FY15	6,338,260	5,426,749	5,375,041			(51,708)	841,248	(892,956)	5,515,545	(822,716)

SECTION II - PAID LOSS & ALAE

Fiscal Years	Selected Ultimate Loss & ALAE as of 4/30/13 (1)	Actual Paid Loss & ALAE as of		Expected Percent Paid as of		Actual Change in Paid 4/13 - 6/15 (2b) - (2a) (4)	Expected Change in Paid 4/13 - 6/15 (5)	Actual Minus Expected (4) - (5) (6)	Selected Ultimate Loss & ALAE as of 6/30/15 (7)	Change in Ultimate Loss & ALAE (8)
		4/30/13	6/30/15	4/30/13	6/30/15					
		(2a)	(2b)	(3a)	(3b)					
7/1/04-6/30/05	1,207,148	1,169,493	1,169,493	99.8%	100.0%	0	37,655	(37,655)	1,169,493	(37,655)
7/1/05-6/30/06	757,562	725,117	725,117	99.7%	99.9%	0	22,125	(22,125)	725,117	(32,444)
7/1/06-6/30/07	504,989	504,989	504,989	99.6%	99.8%	0	0	0	504,989	0
7/1/07-6/30/08	363,478	345,237	345,237	99.4%	99.7%	0	9,619	(9,619)	345,237	(18,242)
7/1/08-6/30/09	368,069	368,069	368,069	99.0%	99.6%	0	0	0	368,069	0
7/1/09-6/30/10	726,460	726,460	726,460	96.6%	99.4%	0	0	0	726,460	0
7/1/10-6/30/11	290,604	221,526	221,944	83.1%	99.2%	418	65,627	(65,209)	221,944	(68,661)
7/1/11-6/30/12	1,312,510	797,646	851,797	49.5%	97.4%	54,151	488,455	(434,304)	993,243	(319,267)
7/1/12-6/30/13	807,439	108,010	289,523	16.2%	86.4%	181,513	586,356	(404,842)	460,993	(346,446)
7/1/13-6/30/14	869,757	0	231,421	0.0%	53.8%	231,421	468,076	(236,655)	300,439	(569,318)
7/1/14-6/30/15	883,913 *	0	206,362	0.0%	21.8%	206,362	192,329	14,033	701,416	(182,497)
Total All Years	8,091,931	4,966,547	5,640,412			673,865	1,870,241	(1,196,376)	6,517,400	(1,574,531)
Exclude FY14 & FY15	6,338,260	4,966,547	5,202,629			236,082	1,209,836	(973,754)	5,515,545	(822,716)

Notes:

Columns (1), (2a), and (3) are from Oliver Wyman's report using data valued as of April 30, 2013.
 Column (2b) provided by City of Virginia Beach.
 Column (5) equals [Column (1) - Column (2a)] x [Column (3b) - Column (3a)] / [1.0 - Column (3a)].
 Column (7) equals Exhibit 1, Sheet 4, Column (9).
 Column (8) equals Column (7) - Column (1).

* The selected ultimate for fiscal year ending 2015 has been revised with updated exposures.



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