



# Vermont State Teachers' Retirement System

**Actuarial Valuation and Review of Other Postemployment  
Benefits (OPEB) as of June 30, 2017 In accordance with  
GASB Statement No. 75 Reporting for Fiscal Year Ending  
June 30, 2018**

This report has been prepared at the request of the Board of Trustees to assist in administering the Retirement System. This valuation report may not otherwise be copied or reproduced in any form without the consent of the Board of Trustees and may only be provided to other parties in its entirety. The measurements shown in this actuarial valuation may not be applicable for other purposes.

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July 6, 2018

Office of the Vermont State Treasurer  
109 State Street  
Montpelier, Vermont 05609

Dear Board Members:

We are pleased to submit this Actuarial Valuation and Review of Other Postemployment Benefits (OPEB) as of June 30, 2017 under Governmental Accounting Standards Board Statement No. 75 for fiscal year ending June 30, 2018. The report summarizes the actuarial data used in the valuation, discloses the Net OPEB Liability (NOL) as of June 30, 2017, and analyzes the preceding year's experience. The Actuarially Determined Contribution for fiscal years ending June 30, 2017 and June 30, 2018 were calculated by the prior actuary, Buck Consultants. This report was based on the census data and financial information provided and/or affirmed by the Vermont State Teachers' Retirement System, and the terms of the Plan. The actuarial calculations were completed under the supervision of Yori Rubinson, FSA MAAA, Vice President and Retiree Health Actuary.

If you have any questions, please feel free to call me. We look forward to discussing this material with you at your convenience.

Sincerely,

Segal Consulting, a Member of The Segal Group, Inc.

By: *Daniel A. Levin*  
Daniel A. Levin, FSA MAAA FCA CEBS  
Senior Vice President

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### Important Information about Actuarial Valuations

An actuarial valuation is a budgeting tool with respect to defining future uncertain obligations of a postretirement health plan. As such, it will never forecast the precise future stream of benefit payments. It is an estimated forecast – the actual cost of the plan will be determined by the benefits and expenses paid, not by the actuarial valuation.

In order to prepare a valuation, Segal Consulting (“Segal”) relies on a number of input items. These include:

- **Plan of benefits** Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. Even where they appear precise, outside factors may change how they operate. For example, a plan may provide health benefits to post-65 retirees that coordinates with Medicare. If so, changes in the Medicare law or administration may change the plan’s costs without any change in the terms of the plan itself. It is important for the Vermont State Teachers’ Retirement System to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan summary included in our report to confirm that Segal has correctly interpreted the plan of benefits.
- **Participant data** An actuarial valuation for a plan is based on data provided to the actuary by the plan. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is not necessary to have perfect data for an actuarial valuation: the valuation is an estimated forecast, not a prediction. The uncertainties in other factors are such that even perfect data does not produce a “perfect” result. Notwithstanding the above, it is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.
- **Assets** Part of the cost of a plan will be paid from existing assets – the balance will need to come from future contributions and investment income. The valuation is based on the asset values as of the valuation date, typically reported by the auditor. Some plans include assets, such as private equity holdings, real estate, or hedge funds that are not subject to valuation by reference to transactions in the marketplace. A snapshot as of a single date may not be an appropriate value for determining a single year’s contribution requirement, especially in volatile markets. Plan sponsors often use an “actuarial value of assets” that differs from market value to reflect gradually year-to-year changes in the market value of assets in determining the contribution requirements.
- **Actuarial assumptions** In preparing an actuarial valuation, Segal starts by developing a forecast of the benefits to be paid to existing plan participants for the rest of their lives and the lives of their beneficiaries. To determine the future costs of benefits, Segal collects claims, premiums, and enrollment data in order to establish a baseline cost for the valuation measurement, and then develops short- and long-term health care cost trend rates to project increases in costs in future years. This forecast also requires actuarial assumptions as to the probability of death, disability, withdrawal, and retirement of each participant for each year, as well as forecasts of the plan’s benefits for each of those events. The forecasted benefits are then discounted to a present value, typically based on an estimate of the rate of return that will be achieved on the plan’s assets or, if there are no assets, a rate of return based on a yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher (or equivalent quality on another rating scale). All of these factors are uncertain and unknowable. Thus, there will be a range of reasonable assumptions, and the results may vary materially based on which assumptions the actuary selects within that range. That is, there is no right answer (except with hindsight). It is important for any user of an actuarial valuation to understand and accept this constraint. The actuarial model necessarily uses approximations and estimates that may lead to significant changes in our results but will have no impact on the actual cost of

the plan. In addition, the actuarial assumptions may change over time, and while this can have a significant impact on the reported results, it does not mean that the previous assumptions or results were unreasonable or wrong.

Given the above, the user of Segal's actuarial valuation (or other actuarial calculations) needs to keep the following in mind:

- The actuarial valuation is prepared for use by the Vermont State Teachers' Retirement System. It includes information for compliance with accounting standards and for the plan's auditor. Segal is not responsible for the use or misuse of its report, particularly by any other party.
- If the Vermont State Teachers' Retirement System is aware of any event or trend that was not considered in this valuation that may materially change the results of the valuation, Segal should be advised, so that we can evaluate it.
- An actuarial valuation is a measurement at a specific date – it is not a prediction of a plan's future financial condition. Accordingly, Segal did not perform an analysis of the potential range of financial measurements, except where otherwise noted. The actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.
- Sections of this report include actuarial results that are unrounded, but that does not imply precision.
- Critical events for a plan include, but are not limited to, decisions about changes in benefits and contributions. The basis for such decisions needs to consider many factors such as the risk of changes in plan enrollment, emerging claims experience, health care trend, and investment losses, not just the current valuation results.
- Segal does not provide investment, legal, accounting, or tax advice. Segal's valuation is based on our understanding of applicable guidance in these areas and of the plan's provisions, but they may be subject to alternative interpretations. The Vermont State Teachers' Retirement System should look to their other advisors for expertise in these areas.
- While Segal maintains extensive quality assurance procedures, an actuarial valuation involves complex computer models and numerous inputs. In the event that an inaccuracy is discovered after presentation of Segal's valuation, Segal may revise that valuation or make an appropriate adjustment in the next valuation.
- Segal's report shall be deemed to be final and accepted by the Vermont State Teachers' Retirement System upon delivery and review. Vermont State Teachers' Retirement System should notify Segal immediately of any questions or concerns about the final content.

As Segal Consulting has no discretionary authority with respect to the management or assets of the Plan, it is not a fiduciary in its capacity as actuaries and consultants with respect to the Plan.

## Purpose

This report presents the results of our actuarial valuation of Governmental Entity (the “Employer”) OPEB plan as of June 30, 2017, required by Governmental Accounting Standards Board (GASB) Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*. The actuarial computations made are for purposes of fulfilling plan accounting and funding requirements. Determinations for purposes other than meeting financial accounting and funding requirements may be significantly different from the results reported here.

## Highlights of the Valuation

### **ACCOUNTING AND FINANCIAL REPORTING**

- The **Total OPEB Liability** as of June 30, 2017 is \$905,632,829, a decrease of \$3,832,013 from Total OPEB Liability of \$909,464,842 as of June 30, 2016. Total plan obligations had been expected to increase to \$938,824,483, due to normal plan operations. The difference between actual and expected actuarial accrued liabilities was the effect of:
  - **Valuation assumption changes** decreased the Total OPEB Liability by \$33,191,654. This was the result of increasing the discount rate from 2.85% to 3.58%. Detailed information regarding all actuarial assumptions can be found in Section 3, Exhibit II. The current plan of benefits is summarized in Exhibit III of Section 3.
- As of June 30, 2017, the ratio of assets to the Total OPEB Liability (the funded ratio) is -2.94%. This is based on the market value of assets as of June 30, 2017.
- The **Annual OPEB Expense** is \$52,709,854 for the year ending June 30, 2018.

**Section 1: Executive Summary for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75**

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**Summary of Key Valuation Results**

	<b>As of June 30, 2016</b>	<b>As of June 30, 2017</b>
<b>Total OPEB Liability</b>	\$909,464,842	\$905,632,829
<b>Plan Fiduciary Net Position (Assets)</b>	<u>(20,961,072)</u>	<u>(26,657,646)</u>
<b>Net OPEB Liability</b>	\$930,425,914	\$932,290,475
<b>Plan Fiduciary Net Position as a percentage of Total OPEB Liability</b>	-2.30%	-2.94%

  

	<b>As of June 30, 2018</b>
<b>Annual OPEB Expense</b>	\$52,709,854

  

	<b>For Year Ending June 30, 2017</b>	<b>For Year Ending June 30, 2018</b>
<b>Actuarially Determined Contribution*</b>	\$35,918,126	\$37,316,779
<b>Actual Contribution for Fiscal Year Ending</b>	\$23,838,958	
<b>Benefit payments net of retiree contributions, including administrative expense</b>	\$29,576,455	

\*The Actuarially Determined Contributions were calculated by the prior actuary, Buck Consultants.

July 6, 2018

### Actuarial Certification

This is to certify that Segal Consulting, a Member of The Segal Group, Inc. has conducted an actuarial valuation of certain benefit obligations of the Vermont State Teachers' Retirement System other postemployment benefit programs as of June 30, 2017, in accordance with generally accepted actuarial principles and practices. The actuarial calculations presented in this report have been made on a basis consistent with our understanding of GASB Statement 75 for the determination of the liability for postemployment benefits other than pensions.

The actuarial valuation is based on the plan of benefits and reliance on participant, premium, claims and expense data provided by the System or from vendors employed by the System. Segal Consulting does not audit the data provided. The accuracy and comprehensiveness of the data is the responsibility of those supplying the data. Segal, however, does review the data for reasonableness and consistency.

The actuarial computations made are for purposes of fulfilling plan accounting and funding requirements. Determinations for purposes other than meeting financial accounting and funding requirements may be significantly different from the results reported here. Accordingly, additional determinations may be needed for other purposes, such as judging benefit security at termination of the plan, or determining short-term cash flow requirements.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: retiree group benefits program experience or rates of return on assets differing from that anticipated by the assumptions; changes in assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and changes in retiree group benefits program provisions or applicable law. Retiree group benefits models necessarily rely on the use of approximations and estimates, and are sensitive to changes in these approximations and estimates. Small variations in these approximations and estimates may lead to significant changes in actuarial measurements. The scope of the assignment did not include performing an analysis of the potential change of such future measurements except where noted.

To the best of my knowledge, this report is complete and accurate and in my opinion presents the information necessary to comply with GASB Statement 75 with respect to the benefit obligations addressed. The signing actuary is a member of the Society of Actuaries, the American Academy of Actuaries, and other professional actuarial organizations and meets the "General Qualification Standards for Statements of Actuarial Opinions" to render the actuarial opinion contained herein.

  
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Yoni Rubinson, FSA MAAA  
Vice President and Retiree Health Actuary

## Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

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### EXHIBIT 1

#### General Information about the OPEB Plan

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##### Plan Description

Pursuant to contractual agreement and policy, VSTRS provides postemployment healthcare benefits to eligible VSTRS employees who retire from the System. Vermont Statute Title 16, Chapter 55 assigns the authority to VSTRS to establish and amend the benefit provisions of the plan and to establish maximum obligations of plan members to contribute to the plan. The VSTRS Board of Trustees is authorized to establish contribution rates of System employees and retirees, and they are set as part of the collective bargaining process.

At June 30, 2016, the Vermont State Teachers' Retirement System membership consisted of the following:

	<b>June 30, 2016</b>
Retired members or beneficiaries currently receiving benefits	6,355
Retired members or beneficiaries not receiving benefits	2,265
Vested terminated members entitled to but not yet receiving benefits	1,824
Active members	<u>9,919</u>
Total	20,363

## Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

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### EXHIBIT 2 Net OPEB Liability

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	June 30, 2016	June 30, 2017
<b>The components of the Net OPEB Liability are as follows:</b>		
Total OPEB Liability	\$909,464,842	\$905,632,829
Plan Fiduciary Net Position	<u>(20,961,072)</u>	<u>(26,657,646)</u>
Net OPEB Liability	\$930,425,914	\$932,290,475
Plan Fiduciary Net Position as a percentage of the Total OPEB Liability	-2.30%	-2.94%

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The Net OPEB Liability was measured as of June 30, 2017 and 2016. The Plan Fiduciary Net Position (plan assets) was valued as of the measurement dates and the Total OPEB Liability was determined from actuarial valuations as of June 30, 2016.

**Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75**

**EXHIBIT 2 (continued)**

**Net OPEB Liability**

*Actuarial assumptions.* The Total OPEB Liability used the following actuarial assumptions, applied to all periods included in the measurement, unless otherwise specified:

	<b>June 30, 2016</b>	<b>June 30, 2017</b>
<i>Discount Rate</i>	2.85%	3.58%
<i>Salary Increase Rate</i>	Varies by age	Varies by age
<i>Healthcare Costs Trend Rates</i>		
<i>Non-Medicare</i>	7.50% graded to 4.50% over 13 years	7.50% graded to 4.50% over 12 years
<i>Medicare</i>	7.75% graded to 4.50% over 12 years	7.75% graded to 4.50% over 11 years
<i>Retiree Contributions</i>	Equal to health trend	Equal to health trend
<i>Pre-retirement Mortality</i>	(same as current year)	98% of RP-2014 White Collar Employee with generational projection using Scale SSA-2017.
<i>Post-retirement Mortality</i>	(same as current year)	98% of RP-2014 White Collar Annuitant with generational projection using Scale SSA-2017.
<i>Disabled Mortality</i>	(same as current year)	RP-2014 Disabled Mortality Table with generational projection using Scale SSA-2017.

Detailed information regarding all actuarial assumptions can be found in Section 3, Exhibit II.

## Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

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### EXHIBIT 3

#### Determination of Discount Rate and Investment Rates of Return

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##### *DEVELOPMENT OF LONG-TERM RATE*

The long-term expected rate of return on OPEB plan investments are developed for each major asset class. These returns are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

The target allocation, long-term expected rates of return for each major asset class, and expected inflation, as provided by the System, are summarized below:

<b>Asset Class</b>	<b>Target Allocation</b>	<b>Long-Term Expected Real Rate of Return as of June 30, 2017</b>
Large cap equity	20%	5.92%
International equity	15%	6.71%
Emerging international equity	5%	9.70%
Core bonds	60%	1.38%
Inflation		2.75%

The target allocation above is based on the Trust Investment Account mix used by the Vermont State Employees' Postemployment Benefits Trust Fund.

The System's Board established the Vermont Retired Teachers' Health and Medical Benefits Fund (Benefits Fund) in 2013. The Benefits Fund was created for the sole purpose of accepting contributions from the System in order to provide postemployment health insurance benefits to current and future eligible retirees of the System in accordance with the terms of the healthcare plan.

**Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75**

**EXHIBIT 3 (continued)**

**Determination of Discount Rate and Investment Rates of Return**

***PROJECTION OF OPEB PLAN'S FIDUCIARY NET POSITION FOR USE IN CALCULATION OF DISCOUNT RATE***

The projection of cash flow used to determine the discount rate assumed that the Vermont State Teachers' Retirement System contributions would be made at rates equal to the projected benefit payments for the upcoming year. Based on these assumptions, the OPEB Plan's fiduciary net position was projected to be exhausted within the first year. Therefore, the short-term bond rate expected rate of return of 3.58% on plan investments was applied to all periods of projected benefit payments to determine the Total OPEB Liability.

<b>Year Beginning July 1,</b>	<b>Projected Beginning Plan Fiduciary Net Position (a)</b>	<b>Projected Total Contributions (b)</b>	<b>Projected Benefit Payments and Administrative Expenses (c)</b>	<b>Projected Investment Earnings (d)</b>	<b>Projected Ending Plan Fiduciary Net Position (e) = (a) + (b) - (c) + (d)</b>
2017	(\$26,657,646)	\$28,760,890	\$28,760,890	\$0	(\$26,657,646)

Notes:

- (1) Amounts may not total exactly due to rounding.
- (2) Column (c): Projected benefit payments have been determined in accordance with paragraphs 30-35 of GASB Statement No. 75 and are based on the closed group of active, retired members and beneficiaries as of June 30, 2016.
- (3) Column (d): Projected investment earnings are based on the assumed investment rate of return of 7.50% per annum and reflect the assumed timing of benefit payments and contributions made at the middle of each year.
- (4) The Plan's Fiduciary Net Position is projected to be exhausted within the first year.

**Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75**

**EXHIBIT 4  
Sensitivity**

The following presents the NOL of the Vermont State Teachers' Retirement System as well as what the Vermont State Teachers' Retirement System's NOL would be if it were calculated using a discount rate that is 1-percentage-point lower (2.58%) or 1-percentage-point higher (4.58%) than the current rate. Also shown is the NOL as if it were calculated using healthcare cost trend rates that were 1 percentage point lower or 1 percentage point higher than the current healthcare trend rates.

<b>June 30, 2017</b>	<b>1% Decrease in Discount Rate (2.58%)</b>	<b>Current Discount Rate (3.58%)</b>	<b>1% Increase in Discount Rate (4.58%)</b>
<b>Net OPEB Liability (Asset)</b>	\$1,071,120,094	\$932,290,475	\$817,506,440
	<b>1% Decrease in Healthcare Cost Trend Rates</b>	<b>Current Healthcare Cost Trend Rates</b>	<b>1% Increase in Healthcare Cost Trend Rates</b>
<b>Net OPEB Liability (Asset)</b>	\$800,022,391	\$932,290,475	\$1,099,519,071

## Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

### EXHIBIT 5

#### Schedule of Changes in Net OPEB Liability

Reporting Date for Employer under GASB 75	June 30, 2018
Measurement Date for Employer under GASB 75	June 30, 2017
<b>Total OPEB Liability</b>	
Service cost	\$32,511,242
Interest	26,424,854
Change of benefit terms	0
Differences between expected and actual experience	0
Changes of assumptions	(33,191,654)
Benefit payments net of retiree contributions, including administrative expense	<u>(29,576,455)</u>
Net change in Total OPEB Liability	(\$3,832,013)
Total OPEB Liability – beginning	<u>\$909,464,842</u>
(a) Total OPEB Liability – ending	\$905,632,829
<b>Plan Fiduciary Net Position</b>	
Contributions – employer	\$0
Contributions – employee	0
Contributions – non-employer	23,838,958
Net investment income	40,923
Benefit payments, including refunds of member contributions; including administrative expenses	<u>(29,576,455)</u>
Net change in Plan Fiduciary Net Position	(\$5,696,574)
Plan Fiduciary Net Position – beginning	<u>(\$20,961,072)</u>
(b) Plan Fiduciary Net Position – ending	(\$26,657,646)
(c) Net OPEB Liability – ending (a) – (b)	\$932,290,475
Plan Fiduciary Net Position as a percentage of the Total OPEB Liability	-2.94%
Covered employee payroll	\$586,397,072
Plan Net OPEB Liability as percentage of covered employee payroll	158.99%

## Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

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### EXHIBIT 5 (continued)

#### Schedule of Changes in Net OPEB Liability

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##### Notes to Schedule:

The information in Exhibit 5 is required beginning in 2017. A full 10-year trend will be compiled in future years.

*Benefit changes:* None

*Changes of assumptions:* In 2017, the discount rate was increased from 2.85% to 3.58%.

## Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

### EXHIBIT 6

#### Deferred Outflows of Resources and Deferred Inflows of Resources

The following charts reflect the deferred inflows and outflows of resources related to OPEB. Deferred inflows and outflows are differences between actual and expected experience that are not reflected in the current year's expenses.

<b>Reporting Date for Employer under GASB 75</b>	<b>June 30, 2018</b>
<b>Measurement Date for Employer under GASB 75</b>	<b>June 30, 2017</b>

#### Deferred Outflows of Resources

1. Changes in proportion and differences between employer's contributions and proportionate share of contributions	\$0
2. Changes of assumptions or other inputs	0
3. Net difference between projected and actual earnings on plan investments	0
4. Difference between expected and actual experience in the Total OPEB Liability	<u>0</u>
5. Total Deferred Outflows of Resources	<u>\$0</u>

#### Deferred Inflows of Resources

6. Changes in proportion and differences between employer's contributions and proportionate share of contributions	\$0
7. Changes of assumptions or other inputs	25,543,807
8. Net difference between projected and actual earnings on investments	1,462,528
9. Difference between expected and actual experience in the Total OPEB Liability	<u>0</u>
10. Total Deferred Inflows of Resources	<u>\$27,006,335</u>

#### Deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized as follows:

Reporting Date for Employer under GASB 75 Year Ended June 30:

2018	N/A
2019	(\$8,013,479)
2020	(8,013,479)
2021	(8,013,479)
2022	(2,965,900)
2023	0
Thereafter	0

Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

**EXHIBIT 7**

**Schedule of Recognition of Changes in Total Net OPEB Liability**

**Increase (Decrease) in OPEB Expense Arising from the Recognition of the Effects of Differences between Expected and Actual Experience on Total OPEB Liability**

**Reporting Date for Employer under GASB 75 Year Ended June 30:**

Reporting Date for Employer under GASB 75 Year Ended June 30	Differences between Expected and Actual Experience	Recognition Period (Years)	2018	2019	2020	2021	2022	2023	Thereafter
2018	\$0	4.34	<u>\$0</u>						
Net increase (decrease) in OPEB expense			\$0	\$0	\$0	\$0	\$0	\$0	\$0

**Increase (Decrease) in OPEB Expense Arising from the Recognition of the Effects of Assumption Changes**

**Reporting Date for Employer under GASB 75 Year Ended June 30:**

Reporting Date for Employer under GASB 75 Year Ended June 30	Effect of Assumption Changes	Recognition Period (Years)	2018	2019	2020	2021	2022	2023	Thereafter
2018	(\$33,191,654)	4.34	<u>(\$7,647,847)</u>	<u>(\$7,647,847)</u>	<u>(\$7,647,847)</u>	<u>(\$7,647,847)</u>	<u>(\$2,600,268)</u>	<u>\$0</u>	<u>\$0</u>
Net increase (decrease) in OPEB expense			(\$7,647,847)	(\$7,647,847)	(\$7,647,847)	(\$7,647,847)	(\$2,600,268)	\$0	\$0

Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

EXHIBIT 7 (continued)

Schedule of Recognition of Changes in Total Net OPEB Liability

Increase (Decrease) in OPEB Expense Arising from the Recognition of Differences between Projected and Actual Earnings on Investments

Reporting Date for Employer under GASB 75 Year Ended June 30:

Reporting Date for Employer under GASB 75 Year Ended June 30	Differences between Projected and Actual Earnings	Recognition Period (Years)	2018	2019	2020	2021	2022	2023	Thereafter
2018	(\$1,828,160)	5.00	(\$365,632)	(\$365,632)	(\$365,632)	(\$365,632)	(\$365,632)	\$0	\$0
Net increase (decrease) in OPEB expense			(\$365,632)	(\$365,632)	(\$365,632)	(\$365,632)	(\$365,632)	\$0	\$0

Total Increase (Decrease) in OPEB Expense

Reporting Date for Employer under GASB 75 Year Ended June 30:

Reporting Date for Employer under GASB 75 Year Ended June 30	Total Differences	Recognition Period (Years)	2018	2019	2020	2021	2022	2023	Thereafter
2018	(\$35,019,814)		(\$8,013,479)	(\$8,013,479)	(\$8,013,479)	(\$8,013,479)	(\$2,965,900)	\$0	\$0
Net increase (decrease) in OPEB expense			(\$8,013,479)	(\$8,013,479)	(\$8,013,479)	(\$8,013,479)	(\$2,965,900)	\$0	\$0

## Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

### EXHIBIT 8 OPEB Expense

Reporting Date for Employer under GASB 75	June 30, 2018
Measurement Date for Employer under GASB 75	June 30, 2017
<b>Components of OPEB Expense</b>	
1. Service cost	\$32,511,242
2. Interest on the Total OPEB Liability	26,424,854
3. Expensed portion of current-period changes in proportion and differences between employer's contributions and proportionate share of contributions	0
4. Expensed portion of current-period benefit changes	0
5. Expensed portion of current-period difference between expected and actual experience in the Total OPEB Liability	0
6. Expensed portion of current-period changes of assumptions or other inputs	(7,647,847)
7. Member contributions	0
8. Projected earnings on plan investments	1,787,237
9. Expensed portion of current-period differences between actual and projected earnings on plan investments	(365,632)
10. Administrative expense	0
11. Other	0
12. Recognition of beginning of year deferred outflows of resources as OPEB expense	0
13. Recognition of beginning of year deferred inflows of resources as OPEB expense	<u>0</u>
14. Net amortization of deferred amounts from changes in proportion and differences between employer's contributions and proportionate share of contributions	0
<b>OPEB Expense</b>	<b>\$52,709,854</b>

Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

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**EXHIBIT 9**  
**Schedule of Contributions**

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<b>Year Ended June 30</b>	<b>Actuarially Determined Contributions*</b>	<b>Contributions in Relation to the Actuarially Determined Contributions</b>	<b>Contribution Deficiency / (Excess)</b>	<b>Covered-Employee Payroll</b>	<b>Contributions as a Percentage of Covered Employee Payroll</b>
2017	\$35,918,126	\$23,838,958	\$12,079,168	\$586,397,072	4.07%

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\*The Actuarially Determined Contributions were calculated by the prior actuary, Buck Consultants.

## Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

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### Notes to Exhibit 9

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#### Methods and assumptions used to establish "actuarially determined contribution" rates:

<b>Valuation date</b>	Actuarially determined contribution rates are calculated as of June 30, two years prior to the end of the fiscal year in which contributions are reported
<b>Measurement date</b>	June 30, 2017
<b>Actuarial cost method</b>	Projected Unit Credit
<b>Amortization method</b>	30 Years, Open, Level Percent of Payroll
<b>Remaining amortization period</b>	30 Years as of July 1, 2017
<b>Asset valuation method</b>	The market value of assets as of the measurement date
<b>Actuarial assumptions</b>	The actuarial assumptions used to calculate the actuarially determined contribution rates can be found in the Report on the Actuarial Valuation of Post Retirement Benefits of the Vermont State Teachers' Retirement System Prepared as of June 30, 2016 completed by Buck Consulting.

## Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

### EXHIBIT 10 Actuarially Determined Contribution\*

	Year Ending June 30, 2017	% of Payroll	Year Ending June 30, 2018	% of Payroll
Normal Cost	\$16,815,904	2.87%	\$17,656,699	2.78%
Interest on Benefit Payments	(\$499,434)	-0.09%	(\$487,673)	-0.08%
Amortization of Unfunded Actuarial Accrued Liability Adjusted for Timing	\$19,601,656	3.34%	\$20,147,753	3.17%
Total Actuarially Determined Contribution	\$35,918,126	6.13%	\$37,316,779	5.87%
Total Payroll	\$586,397,072		\$635,759,343	

\*The Actuarially Determined Contributions were calculated by the prior actuary, Buck Consultants.

The Actuarially Determined Contribution, as currently calculated, is not sufficient to fully fund the Total OPEB Liability.

**Section 2: Valuation Results for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75**

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**EXHIBIT 11**

**Statement of Net Fiduciary Position**

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	<b>June 30, 2017</b>
<b>Total assets</b>	\$3,406,354
<b>Total liabilities</b>	<u>30,064,000</u>
<b>Net position restricted for OPEB</b>	<b>(\$26,657,646)</b>

### Section 3: Supporting Information for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

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#### EXHIBIT I

#### Summary of Participant Data

June 30, 2016

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#### Retirees Enrolled in Health Care

Number of retirees	6,259
Average age of retirees	70.9
Number of spouses and dependents (excluding children)	1,205
Average age of spouses	69.8

#### Surviving Spouses Enrolled in Health Care

Number	96
Average age	77.8

#### Retirees and Surviving Spouses Not Enrolled in Health Care

Number	2,265
Average Age	71.0

#### Terminated Members Entitled but Not Yet Eligible

Number of terminated members	1,824
Average age of terminated members	50.0

#### Active Participants

Number	9,919
Average age	45.9
Average years of service	12.7
Average expected retirement age	61.7

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**Exhibit II**

**Actuarial Assumptions and Methods**

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<b>Data:</b>	Detailed census data, claim experience, and summary plan descriptions for postretirement welfare benefits were provided and/or affirmed by the Vermont State Teachers' Retirement System.
<b>Actuarial Cost Method:</b>	Entry-Age Normal, Level Percentage of Pay
<b>Asset Valuation Method:</b>	Market Value
<b>Roll-forward Techniques:</b>	The results as of June 30, 2017 were based on participant data as of June 30, 2016 projected forward to June 30, 2017 using standard actuarial techniques.
<b>Measurement Date:</b>	June 30, 2017
<b>Actuarial Valuation Date:</b>	June 30, 2016
<b>Demographic Assumptions:</b>	<p>Some of the demographic assumptions used in this valuation (including mortality, disability, turnover, and retirement) are the same as used in the Vermont State Teachers' Retirement System Actuarial Valuation and Review as of June 30, 2017 completed by Segal Consulting. These assumptions were reviewed as part of the pension valuation process, and we have no reason to doubt their reasonableness for use in this valuation.</p> <p>The remaining demographic assumptions, such as enrollment elections, percent married, and relative ages of spouses were based on the experience of the Plan and the experience of similar plans.</p>
<b>Discount Rate:</b>	3.58% based on the short-term bond rate.

**Salary Increase Rate:**

<u>Service</u>	<u>Annual Rate of Salary Increase (%)</u>
25	7.78%
30	6.47
35	5.60
40	4.92
45	4.43
50	4.09
55	3.85
60	3.75

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**Mortality Rates:**

*Death in Active Service:*

- All Groups 98% of RP-2014 White Collar Employee with generational projection using Scale SSA-2017.

*Healthy Post-retirement:*

- All Groups 98% of RP-2014 White Collar Annuitant with generational projection using Scale SSA-2017.

*Disabled Post-retirement:*

- All Groups RP-2014 Disabled Mortality Table with generational projection using Scale SSA-2017.

The tables with the generational projection to the ages of participants as of the measurement date reasonably reflect the mortality experience of the Plan as of the measurement date. The mortality tables were then adjusted to future years using a generational projection with Scale SSA-2017 to reflect future mortality improvement.

Section 3: Supporting Information for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75

**Separation from Service before Retirement (Due to Withdrawal And Disability):**

Representative values of the assumed annual rates of withdrawal and disability are as follows:

Age	Rate (%)			
	Withdrawal		Disability	
	Male	Female	Male	Female
25	21.00%	20.00%	0.005%	0.008%
30	12.60	14.00	0.008	0.008
35	8.40	11.30	0.010	0.008
40	6.50	9.03	0.015	0.010
45	5.80	6.30	0.026	0.023
50	5.40	5.25	0.067	0.070
55	5.40	5.04	0.044	0.048
60	5.40	5.04	0.147	0.084

**Retirement Rates:**

Age	Reduced Early Retirement		Full Early Retirement
	Group A	Group C	Grandfathered (Group C)
55	6.13%	6.13%	6.13%
56	6.25	6.25	6.25
57	6.25	6.25	6.25
58	6.25	6.25	6.25
59	9.38	9.38	9.38
60	12.50	18.75	18.75
61	18.75	18.75	18.75

**Section 3: Supporting Information for the Vermont State Teachers' Retirement System June 30, 2017 Measurement Under GASB 75**

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Age	Service Retirement		
	Group C		
	Group A	Non-Grandfathered	Grandfathered
60	12.50%	17.00%	N/A
61	18.80	17.00	N/A
62	25.00	20.00	22.00%
63	22.00	22.00	22.00
64	22.00	22.00	22.00
65	33.00	33.00	33.00
66	33.00	33.00	33.00
67	33.00	33.00	33.00
68	22.00	22.00	22.00
69	33.00	33.00	33.00
70	100.00	100.00	100.00

Non-grandfathered members are assumed to retire with 25% probability if they are first eligible for service retirement on or before age 62 and 27.5% probability if they are first eligible for service retirement between age 62 and age 65.

Group A and Grandfathered Group C members are assumed to retire at the following rates upon completion of 30 years of creditable service:

Age	Retirement After 30 Years of Service	
	Group A	Grandfathered (Group C)
49	0.00%	0.00%
50	40.00	40.00
51	20.00	20.00
52	20.00	20.00
53	20.00	20.00
54	20.00	20.00
55	20.00	8.75
56	10.00	6.25
57	10.00	6.25
58	10.00	10.00
59	10.00	10.00
60	30.00	25.00
61	25.50	17.00

**Missing Participant Data:**

A missing census item for a given participant was assumed to equal the average value of that item over all other participants of the same status for whom the item is known. For nonactives currently not receiving coverage, the subsidy was set based on service and retirement date provided in the data. If no service information was provided, retirees were assumed to have an 80% subsidy and spouses were assumed to not be eligible for a subsidy.

**Participation and Coverage Election:**

70% of active employees eligible for a subsidy at retirement and 10% of those not eligible for a subsidy at retirement were assumed to elect coverage. 30% of future terminated vested participants who are eligible for a subsidy and 10% of those not eligible for a subsidy were assumed to elect coverage. 30% of current terminated vested participants were assumed to elect coverage.

Current retirees who have not elected coverage can choose to do so each year at open enrollment. Of current retirees who have not elected coverage and are eligible for a subsidy, 40% who retired within the past year and 10% of others were assumed to elect medical coverage. Current retirees who have not elected coverage and are not eligible for a subsidy are not assumed to elect coverage.

**Dependents:**

Demographic data was used for spouses of current retirees when available. For current retirees, spouse coverage was determined based on plan coverage. For future retirees and current spouses for which information is not available, husbands are assumed to be three years older than wives. Of those future retirees who elect to continue their health coverage at retirement, 60% of males and 50% of females were assumed to have an eligible spouse who also opts for health coverage at that time. Spouses of future retirees who are not eligible for subsidized spouse coverage were assumed not to elect coverage. Spouses of current retirees who are not eligible for subsidized spouse coverage were assumed to pay the full premium.

It is assumed that 5% of future retirees covering spouses will elect the Premium Reduction Option. Current and future terminated vested as well as current retirees without health coverage are not assumed to elect the Premium Reduction Option. The Premium Reduction Option is valued using a reduction factor of 0.85 of the single-life subsidy for which the retiree and spouse are eligible. Surviving spouses with a date of retirement before January 1, 2007 are assumed to pay the full medical premium.

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**Per Capita Cost Development:**

*Medical and Prescription Drug*

Per capita claims costs were based on claims for the period July 1, 2015 through June 30, 2017. Claims were separated by non-Medicare and Medicare retirees, and by medical and prescription drug. Claims were separated by plan year, then adjusted as follows:

- total claims were divided by the number of adult members to yield a per capita claim,
- the per capita claim was trended to the midpoint of the valuation year at assumed trend rates, and
- the per capita claim was adjusted for the effect of any plan changes.

Per capita claims for each plan year were then combined by taking a weighted average. The weights used in this average account for a number of factors including each plan year's volatility of claims experience and distance to the valuation year. Actuarial factors were then applied to the weighted average cost to estimate individual retiree and spouse costs by age and by gender.

*Administrative Expenses*

Per capita claims costs were based on claims for the period July 1, 2015 through June 30, 2017. Claims were separated by plan year, then adjusted as described above to yield a combined weighted average per capita claims cost.

**Per Capita Health Costs:**

Medical and prescription drug claims costs for the year beginning July 1, 2017 are shown in the table below for retirees and for spouses at selected ages. These costs are net of deductibles and other benefit plan cost sharing provisions.

Age	Medical				Prescription Drugs			
	Retiree		Spouse		Retiree		Spouse	
	Male	Female	Male	Female	Male	Female	Male	Female
50	\$7,969	\$9,077	\$5,566	\$7,288	\$1,515	\$1,725	\$1,058	\$1,385
55	9,464	9,771	7,448	8,436	1,799	1,857	1,416	1,603
60	11,239	10,532	9,971	9,784	2,136	2,002	1,895	1,860
64	12,894	11,172	12,587	11,012	2,451	2,123	2,392	2,093
65	1,472	1,251	1,472	1,251	1,896	1,612	1,896	1,612
70	1,706	1,348	1,706	1,348	2,197	1,737	2,197	1,737
75	1,839	1,451	1,839	1,451	2,368	1,869	2,368	1,869

**Administrative Expenses**

An annual administrative expense of \$526 per participant with health and welfare coverage increasing at 3.0% per year was added to projected incurred claim costs in developing the benefit obligations.

**Health Care Cost Trend Rates:**

Health care trend measures the anticipated overall rate at which health plan costs are expected to increase in future years. The rates shown below are “net” and are applied to the net per capita costs shown above. The trend shown for a particular plan year is the rate that is applied to that year’s cost to yield the next year’s projected cost.

Year Ending June 30,	Rate (%)	
	Pre-Medicare Health Costs	Medicare Health Costs
2018	7.50	7.75
2019	7.25	7.45
2020	7.00	7.15
2021	6.75	6.85
2022	6.50	6.55
2023	6.25	6.25
2024	6.00	5.95
2025	5.75	5.65
2026	5.50	5.35
2027	5.25	5.05
2028	5.00	4.75
2029	4.75	4.50
2030+	4.50	4.50

The trend rate assumptions were developed using Segal’s internal guidelines, which are established each year using data sources such as the 2018 Segal Health Trend Survey, internal client results, trends from other published surveys prepared by the S&P Dow Jones Indices, consulting firms and brokers, and CPI statistics published by the Bureau of Labor Statistics.

**Retiree Contribution Increase Rate:**

Retiree contributions were assumed to increase with health trend. Retiree contribution rates were based on 2017 premiums. Plan premiums were weighted by actual retiree and dependent enrollment, separately for non-Medicare and Medicare.

**Health Care Reform Assumption:** The Plan is assumed to be in compliance with the Patient Protection and Affordable Care Act (PPACA) and the Health Care and Education Reconciliation Act (HCERA) of 2010 as of the valuation date. The valuation includes the projected effect of the Act's provision which imposes an excise tax on high cost employer-sponsored health coverage beginning in 2020. The excise tax limit is assumed to increase by 2.5% each year after 2018.

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**Assumption Changes since Prior Valuation:** The discount rate was increased from 2.85% to 3.58%.

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**Exhibit III**  
**Summary of Plan**

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This exhibit summarizes the major benefit provisions as included in the valuation. To the best of our knowledge, the summary represents the substantive plans as of the measurement date. It is not intended to be, nor should it be interpreted as, a complete statement of all benefit provisions.

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<b>Eligibility:</b>	<p>Retirees and their spouses are eligible for health coverage if the retiree is eligible for pension benefits. Pension eligibility requirements are below.</p> <p><b>Group A:</b> Public school teachers employed within the State of Vermont prior to July 1, 1981 and elected to remain a Group A member.</p> <ul style="list-style-type: none"><li>• Retirement: Attainment of 30 years of creditable service, or age 55.</li></ul> <p><b>Group C:</b> Public school teachers employed within the State of Vermont on or after July 1, 1990. Teachers hired before July 1, 1990 and were Group B members in service on July 1, 1990 are now Group C members. Grandfathered participants are Group C members who were within five years of normal retirement eligibility as defined prior to July 1, 2010.</p> <ul style="list-style-type: none"><li>• Retirement Group C Grandfathered: Attainment of age 62, or 30 years of creditable service, or age 55 with 5 years of creditable service.</li><li>• Retirement Group C Non-grandfathered: Attainment of age 65, or age plus creditable service equal to 90, or age 55 with 5 years of creditable service.</li></ul> <p>Vesting and Disability: 5 years of creditable service. Participants who terminate with 5 years of service under the age of 55 may elect coverage upon receiving pension benefits.</p>
<b>Benefit Types:</b>	Medical and prescription drug. Retirees pay the full cost for dental benefits.
<b>Duration of Coverage:</b>	Lifetime.
<b>Spousal Benefits:</b>	Same benefits as for retirees.
<b>Spousal Coverage:</b>	Lifetime.

**Retiree Contributions:**

**Retired before June 30, 2010:**

Retirees with at least 10 years of service pay premium costs in excess of an 80% VSTRS subsidy.

Retirees with less than 10 years of service do not receive any premium subsidy.

Spouses do not receive any premium subsidy, regardless of the retiree's service.

**Retired after June 30, 2010:**

Retirees pay premium costs in excess of the following VSTRS subsidy, based on service:

<b>Retiree Subsidy Level</b>	<b>Subsidy</b>
<b>Years of Service at June 30, 2010</b>	
10 years or more	80%
Less than 10 years	
Less than 15 years at retirement	0%
15-19.99 years at retirement	60%
20-24.99 years at retirement	70%
25 or more years at retirement	80%

Spouses of retirees can receive an 80% subsidy, if they meet the following requirements:

**Spouse Coverage with 80% Subsidy**

<b>Years of Service at June 30, 2010</b>	<b>Required Years of Service at Retirement</b>
Less than 10 years	25 years of service at retirement
Between 10 and 14.99 years	25 years of service at retirement
Between 15 and 24.99 years	10 additional years from June 30, 2010
Between 25 and 29.99 years	35 years of service at retirement
30 or more years	5 additional years from June 30, 2010

Spouses of retirees who do not meet the above requirements for an 80% subsidy can receive unsubsidized coverage.

**Premium Reduction Option:**

Participants retiring on or after January 1, 2007 with a VSTRS premium subsidy have a one-time option to reduce the VSTRS subsidy percentage during the retiree's life so that a surviving spouse may continue to receive the same VSTRS subsidy for the spouse's lifetime. If the retirees elects the joint and survivor pension option but not the Premium Reduction Option, spouses are covered for the spouse's lifetime but pay 100% of the plan premium after the retiree's death.

**Benefit Descriptions**

<b>Medical*</b>	<b>JY Plan</b>	<b>\$300 Comprehensive Plan</b>	<b>Vermont Health Partnership</b>
<i>Annual deductible</i>	N/A	\$300 per person, \$600 per family	N/A
<i>Co-pay</i>	\$20	N/A	\$15 for PCP, \$25 for Specialist
<i>Coinsurance (plan pays)</i>	100% of Allowed	80%	100% of Allowed
<i>Annual maximum out-of-pocket</i>	N/A	\$600 per person, \$1,200 per family	N/A
<b>Prescription Drugs</b>			
<i>Generic</i>		\$5	
<i>Preferred Brand</i>		\$20	
<i>Non-Preferred Brand</i>		\$45	
<i>Annual maximum out-of-pocket</i>		\$600 per person, \$1,200 per family	

\*Eligible participants may also elect the Vermont Blue65 Plan C Medigap plan. The Medigap plan excludes prescription drug coverage.

**Plan Changes since Prior Valuation:** None.

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**Exhibit IV**  
**Definition of Terms**

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The following list defines certain technical terms for the convenience of the reader:

<b>Assumptions or Actuarial Assumptions:</b>	The estimates on which the cost of the Plan is calculated including: (a) <u>Investment return</u> — the rate of investment yield that the Plan will earn over the long-term future; (b) <u>Mortality rates</u> — the death rates of employees and pensioners; life expectancy is based on these rates; (c) <u>Retirement rates</u> — the rate or probability of retirement at a given age; (d) <u>Turnover rates</u> — the rates at which employees of various ages are expected to leave employment for reasons other than death, disability, or retirement.
<b>Total OPEB Liability:</b>	Present value of all future benefit payments for current retirees and active employees taking into account assumptions about demographics, turnover, mortality, disability, retirement, health care trends, and other actuarial assumptions.
<b>Service Cost:</b>	The amount of contributions required to fund the benefit allocated to the current year of service.
<b>Actuarially Determined Contribution:</b>	A target or recommended contribution to an OPEB plan for the reporting period based on the most recent measurement available.
<b>Valuation Date:</b>	The date at which the actuarial valuation is performed
<b>Covered Employee Payroll:</b>	The payroll of the employees that are provided OPEB benefits

<b>Discount Rate:</b>	The single rate of return, that when applied to all projected benefit payments results in an actuarial present value that is the sum of the following:  (1) the actuarial present value of projected benefit payments projected to be funded by plan assets using a long term rate of return, and  (2) the actuarial present value of projected benefit payments that are non included in (1) using a yield or index rate for 20 year tax exempt general obligation municipal bonds with an average rating of AA/Aa or higher
<b>Entry Age Actuarial Cost Method:</b>	An actuarial cost method where the present value of the projected benefits for an individual is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age
<b>Healthcare Cost Trend Rates:</b>	The rate of change in per capita health costs over time
<b>Net OPEB Liability:</b>	The Total OPEB Liability less the Plan Net Fiduciary Position
<b>Plan Net Fiduciary Position:</b>	Market Value of Assets
<b>Real Rate of Return:</b>	The rate of return on an investment after removing inflation
<b>Measurement Date:</b>	The date at which the net OPEB liability is measured
<b>OPEB Expense:</b>	Expense arising from certain changes in the net OPEB liability or total OPEB liability

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**Exhibit V**

**Accounting Requirements**

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The Governmental Accounting Standards Board (GASB) issued Statement Number 74 – *Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans*, and Statement Number 75 – *Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions*. Under these statements, all state and local government entities that provide other post-employment benefits (OPEB) are required to report the cost of these benefits on their financial statements. The accounting standards supplement cash accounting, under which the expense for postemployment benefits is equal to benefit and administrative costs paid on behalf of retirees and their dependents (*i.e.*, a pay-as-you-go basis).

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The statements cover postemployment benefits of health, prescription drug, dental, vision and life insurance coverage for retirees; long-term care coverage, life insurance and death benefits that are *not* offered as part of a pension plan; and long-term disability insurance for employees. The benefits valued in this report are limited to those described in Exhibit III of Section 3, which are based on those provided under the terms of the substantive plan in effect at the time of the valuation and on the pattern of sharing costs between the employer and plan members. The projection of benefits is not limited by legal or contractual limits on funding the plan unless those limits clearly translate into benefit limits on the substantive plan being valued.

The total cost of providing postemployment benefits is projected, taking into account assumptions about demographics, turnover, mortality, disability, retirement, health care trends, and other actuarial assumptions. These assumptions are summarized in Exhibit II of Section 3. This amount is then discounted to determine the Total OPEB Liability. The Net OPEB Liability (NOL) is the difference between the Total OPEB Liability and market value of assets in the Plan, called the Net Plan Fiduciary Position.

Once the NOL is determined, the Annual OPEB Expense is determined as the change in NOL from the prior year with deferred recognition of certain elements. In addition, Required Supplementary Information (RSI) must be reported, including historical information about the Net OPEB liability and the Contributions made to the Plan. Exhibits IV of Section 3 contain a definition of terms as well as more information about GASB 74/75 concepts.

The calculation of an accounting obligation does not, in and of itself, imply that there is any legal liability to provide the benefits valued, nor is there any implication that the Employer is required to implement a funding policy to satisfy the projected expense.

Actuarial calculations reflect a long-term perspective, and the methods and assumptions use techniques designed to reduce short-term volatility in accrued liabilities and the actuarial value of assets, if any.

Actuarial valuations involve estimates of the value of reported amounts and assumptions about the probability of events far into the future, and the actuarially determined amounts are subject to continual revision as actual results are compared to past expectations and new estimates are made about the future.