

This Filing Applies to:
1. Sacramento Public Financing Authority, Lease Revenue Bonds (Golden 1 Center), Series 2015 (Federally Taxable), \$299,995,000, Dated: August 13, 2015 78605QAE7, 78605QAF4, 78605QAG2, 78605QAH0, 78605QAJ6
TYPE OF FILING:
If information is also available on the Internet, give URL: www.dacbond.com
WHAT TYPE OF INFORMATION ARE YOU PROVIDING? (Check all that apply)
Financial / Operating Data Disclosures
Rule 15c2-12 Disclosure
✓ Annual Financial Information & Operating Data (Rule 15c2-12)
2019 Operating Data - Series 2015 G1C
Audited Financial Statements or CAFR (Rule 15c2-12)
Failure to provide as required
Additional / Voluntary Disclosure
Quarterly / Monthly Financial Information
Change in Fiscal Year / Timing of Annual Disclosure
Change in Accounting Standard
Interim / Additional Financial Information / Operating Data
Budget
Investment / Debt / Financial Policy
Information Provided to Rating Agency, Credit / Liquidity Provider or Other Third Party
Consultant Reports

Other Financial / Operating Data
Event Filing
Rule 15c2-12 Disclosure
Principal / Interest Payment Delinquency Non-payment Related Default Unscheduled Draw on Debt Service Reserve Reflecting Financial Difficulties Unscheduled Draw on Credit Enhancement Reflecting Financial Difficulties Substitution of Credit or Liquidity Provider, or Its Failure to Perform Adverse Tax Opinion or Event Affecting the Tax-exempt Status of the Security Modification to the Rights of Security Holders Bond Call Defeasance Release, Substitution or Sale of Property Securing Repayment of the Security Rating Change Tender Offer / Secondary Market Purchases Merger / Consolidation / Acquisition and Sale of All or Substantially All Assets Bankruptcy, insolvency, receivership or similar event Successor, Additional or Change in Trustee Failure to Provide Event Filing Information as Required Financial Obligation - Incurrence and Agreement Financial Obligation - Event Reflecting Financial Difficulties
Additional / Voluntary Disclosure
Amendment to Continuing Disclosure Undertaking Change in Obligated Person
Notice to Investor Pursuant to Bond Documents Communication From the Internal Revenue Service Bid For Auction Rate or Other Securities
Capital or Other Financing Plan Litigation / Enforcement Action Change of Tender Agent, Remarketing Agent or Other On-going Party Derivative or Other Similar Transaction
Other Event-based Disclosures

Asset-Backed Securities Filing

Additional / Voluntary Disclosure

Initial Asset-Backed Securities Disclosure (SEC Rule 15Ga-1(c)(1))
Quarterly Asset-Backed Securities Disclosure (SEC Rule 15Ga-1(c)(2)(i))
Annual Asset-Backed Securities Disclosure (SEC Rule 15Ga-1(c)(2)(ii))
Other Asset-Backed Securities Disclosure (e.g. notice of termination of duty to file reports pursuant to SEC Rule 15Ga-
1(c)(3))

Disclosure Dissemination Agent Contact:

Name: DAC

Address: 315 East Robinson Street

Suite 300 City: Orlando

State: FL

Zip Code: 32801-1674 Telephone: 407 515 - 1100

Fax: 407 515 - 6513

Email Address: emmaagent@dacbond.com Relationship to Issuer: Dissemination Agent

Authorized By:

Name: Brian Wong Title: Debt Manager

Entity: City of Sacramento, CA

3/16/2020 Filing Certificate

Digital Assurance Certification

Filing Certificate

DAC transmitted the Annual Financial Information & Operating Data (Rule 15c2-12) to EMMA/SID (if applicable) on behalf of City of Sacramento, CA under their SEC Rule 15c2-12 Continuing Disclosure Agreement.

Transmission Details: ES1044352

Date & Time Stamp: 03/16/2020

Document Name or Event Type: Annual Financial Information & Operating Data (Rule

15c2-12)

Document Description: 2019 Operating Data - Series 2015 G1C

DAC Bond Coversheet: Yes

Transmitted to: MSRB-EMMA

Total CUSIPs associated with this Filing: 5

Filing made on Series: 2015

Codes: P (Prerefunded), R (Refunded), U (Unrefunded), E (Escrowed), A (Advance Refunding), D (Defeased), T (Tendered), V (Derivatives), UD (Undetermined), NLO (No Longer Outstanding)

Red: Original CUSIPs - filing missed Blue: Non-Original CUSIPs - filing missed Green: Outstanding CUSIPs - filing made Black

1. Issue: Sacramento Public Financing Authority, Lease Revenue Bonds (Golden 1 Center),

Series 2015 (Federally Taxable), \$299,995,000, Dated: August 13, 2015

CUSIP: 78605QAE7, 78605QAF4, 78605QAG2, 78605QAH0, 78605QAJ6

No missing CUSIPs for this bond issue

City of Sacramento Annual Continuing Disclosure Report Fiscal Year 2018-19

Issue Sacramento Public Financing Authority

2015 Lease Revenue Bonds (Golden 1 Center) (Federally Taxable)

Par \$ 272,870,000

Issued September 24, 2015

CUSIP Numbers 78605QAE7

78605QAF4 78605QAG2 78605QAH0 78605QAJ6

Content of Annual Report.

The City's Annual Report shall contain or incorporate by reference the following:

A. The City's comprehensive audited financial report for the prior fiscal year.

The City's Comprehensive Annual Financial Report (CAFR) for the prior fiscal year was uploaded as a separate document to EMMA and is also available on the City's website at:

www.cityofsacramento.org/Finance/Accounting/Reporting

B. The Annual Budget of the City for the current fiscal year.

The City's Approved Budget for the current fiscal year was uploaded as a separate document to EMMA and is also available on the City's website at:

www.cityofsacramento.org/Finance/Budget

C. An update of the information contained in Tables entitled "STATEMENT OF GENERAL FUND REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE," "GROSS ASSESSED VALUES FOR ALL TAXABLE PROPERTY," "CITY OF SACRAMENTO LARGEST LOCAL SECURED TAXPAYERS", "GENERAL FUND OBLIGATION DEBT SERVICE", and "NOTICES OF DEFAULT AND FORECLOSURES OF PROPERTY WITHIN THE CITY" in the Official Statement substantially in the form of the table by that name included in Appendix A to the Official Statement, for the most recently completed fiscal year.



See Exhibit A – Statement of General Fund Revenues, Expenditures and Changes in Fund Balance
See Exhibit B – Gross Assessed Values for all Taxable Property
See Exhibit C – Largest Local Secured Taxpayers
See Exhibit D – General Fund Obligation Debt Service as of June 30, 2019*

* Please note that consistent with FY19 disclosure filings of various Sacramento City Financing Authority and Sacramento Public Financing Authority bond issues, the offsets for the 2015 Lease Revenue Bonds (Golden 1 Center) reflect the anticipated funding support from the Parking Fund and other non-general fund sources.

The information required by the Continuing Disclosure Certificate – "Notices of Default and Foreclosures of Property within the City of Sacramento" is no longer prepared by the County of Sacramento, Office of the Assessor. At this time the City of Sacramento is not aware of another reliable source to obtain notice of default and foreclosure information within the City of Sacramento in the same format as is presented on page 8 in Appendix A.

D. The actuarial valuation report for the Miscellaneous Employees Plan and Safety Employees Plan most recently provided to the City by CalPERS as of the date the City files the Annual Report and the actuarial valuation report for SCERS most recently provided to the City by SCERS as of the date the City files the Annual Report.

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Exhibit E – GASB 68 Accounting Valuation Report – Miscellaneous Plan as of June 30, 2018 Exhibit F – GASB 68 Accounting Valuation Report – Safety Plan as of June 30, 2018 Exhibit G – SCERS Actuarial Valuation – as of June 30, 2018
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E. Additional Voluntary Disclosures:

Exhibit H – GASB 45 Actuarial Valuation Report of Retiree Healthcare Plan – as of June 30, 2017 Exhibit I – GASB 75 Retiree Healthcare Plan as of June 30, 2018



Exhibit A

STATEMENT OF GENERAL FUND REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE (in thousands)

Revenues:		Actual 2014-15		Actual 2015-16	Actual 2016-17	Actual 2017-18		Actual 2018-19
	ው	445.005	Φ	450 404	ф 440.CEC	ф 4EO 04C	Φ	101 110
Property taxes	\$	145,285	\$	150,424	\$ 143,656	\$ 153,346	\$	164,412
Sales and use taxes		58,876		67,983	80,395	84,887		93,769
Utilities use tax		59,948		61,404	62,997	62,989		60,128
Other taxes		22,677		26,732	29,961	36,184		39,820
Licenses and permits		14,322		15,866	18,048	22,018		22,537
Fines, forfeitures and penalties		10,782		12,110	10,906	12,069		15,964
Interest, rents and concessions		1,707		3,002	2,679	1,195		7,810
Intergovernmental revenues		13,363		16,253	14,009	22,380		16,350
Charges, fees and services		57,261		57,951	68,012	78,563		86,859
Other revenues		426		245	259	301		536
Total revenues:		384,647		411,970	430,922	473,932		508,185
Expenditures:								
. General government		24,842		28,909	36,584	48,694		56,498
Public safety		226,802		235,290	244,976	257,910		276,961
Public works		16,169		11,701	14,438	15,423		17,386
Neighborhood services		52,071		54,985	62,972	68,768		73,428
Citywide and community support		37,216		47,961	48,435	46,576		42,827
Capital outlay		8,901		12,577	19,276	21,513		19,392
Debt service		3,219		3,219	2,837	2,102		1,189
Total expenditures:		369,220		394,642	428,518	460,986		487,681
Total expericitures.								
Excess of revenues over expenditures		15,427		17,328	1,404	12,946		20,504
Other financing sources (uses):								
Transfers from other funds		31,275		34,256	33,113	35,414		38,652
Transfers to other funds		(25,265)		(25,032)	(28,959)	(31,545)		(27,919)
Proceeds from long-term debt		(23,203)		(23,032)	(20,939)	(31,343)		(27,919)
		3,100		-	-	-		-
Proceeds from sale of capital assets		3,100		-	-	-		7 000
Special item	-			- 0.004	4.454			7,000
Total other financing sources (uses):		9,110		9,224	4,154	3,869		17,733
Net Change In Fund Balance		24,537		26,552	5,558	16,815		38,237
Fund Balance, beginning of year		98,907		123,444	149,996	155,554		172,369
Fund Balance, end of year	\$	123,444	\$	149,996	\$ 155,554	\$ 172,369	\$	210,606
. and Dalance, end of year	÷		÷				÷	
Less reserves and commitments:								
Nonspendable		11		2	3,812	3,845		-
Restricted		3,654		2,962	17	-		-
Committed:		,		,				
Economic uncertainty		38,967		46,950	49,644	52,700		55,200
Capital projects		32,987		37,526	49,265	37,583		39,995
Fire programs		-,		5,720	1,386	6,189		9,568
Community center theater renovation		8,500		8,550	-,,,,,,	-		-
Homeless programs		750		250	_	_		_
OPEB and pension trust fund		. 50		6,752	5,324	7,619		20,144
Other programs		22,497		13,953	21,367	39,412		52,395
Assigned:		, 107		. 5,550	21,001	00,112		02,000
Unrealized investment gains		50		732	-	-		381
Unassigned fund balance	\$	16,028	\$	26,649	\$ 24,739	\$ 25,021	\$	32,923

City of Sacramento

Assessed Value and Estimated Actual Value of Taxable Property Last Ten Fiscal Years

(in thousands)

		Gross Assess	sed Value (1)					
Fiscal Year End June 30	Real Property	Personal Property	Public Utility	Total	Exemptions		et Assessed Taxable Value	Total Direct Tax Rate ⁽²⁾
2010	\$ 37,446,222	\$ 1,819,726	\$ 11,937	\$ 39,277,885	\$ 499,878	\$	38,778,007	1.00
2011	36,388,660	1,742,824	11,977	38,143,461	496,459		37,647,002	1.00
2012	35,267,406	1,711,462	12,132	36,991,000	488,888		36,502,112	1.00
2013	34,332,037	1,626,943	13,157	35,972,137	477,326		35,494,811	1.00
2014	35,829,529	1,546,891	12,381	37,388,801	464,546		36,924,255	1.00
2015	37,918,666	1,585,876	18,173	39,522,715	455,212		39,067,503	1.00
2016	39,823,777	1,513,519	9,267	41,346,563	448,778		40,897,785	1.00
2017	42,300,010	1,623,203	9,193	43,932,406	446,690		43,485,716	1.00
2018	45,389,674	1,692,375	8,974	47,091,023	445,647		46,645,376	1.00
2019	48,919,753	1,868,599	8,701	50,797,053	444,652		50,352,401	1.00

Notes: (1) Article XIII A, added to California Constitution by Proposition 13 in 1978, fixed the base for valuation of property subject to taxes at the full cash value appeared on the Assessor's 1975-76 assessment roll. Therefore, full cash value can be increased to reflect:

- a) annual inflation up to 2%;
- b) current market value at time of ownership change;
- c) market value for new construction

Estimated actual value of taxable property cannot easily determined as the property in the City is not reassessed annually. Reassessment normally occurs when ownership changes.

(2) This 1 % is shared by all taxing agencies for which the subject property resides within.

Source: County of Sacramento, Office of Auditor/Controller

City of Sacramento Principal Property Taxpayers For the Fiscal Year and Nine Years Ago

(in thousands)

	2019				2010				
Taxpayer	-	Assessed Valuation	Rank	Percentage of Total Assessed Valuation		Assessed Valuation	Rank	Percentage of Total Assessed Valuation	
Sacramento Kings	\$	411,411	1	0.82 %	6 \$	-		- %	
SG Downtown		218,247	2	0.43		-		-	
400 Capitol Mall Owner LP		179,143	3	0.36		-		-	
Arden Fair Associates		147,235	4	0.29		130,092	4	0.33	
500 Capitol Mall LLC		141,721	5	0.28		-		-	
621 Capitol Mall LLC		134,067	6	0.27		95,387	8	0.24	
GV/HI PK TOWER OWNER LLC		122,910	7	0.24		-		-	
300 Capitol Assoc NF LP		117,700	8	0.23		135,252	3	0.35	
M&H RLTY Partners VI Limited Partnership		107,601	9	0.21		91,154	9	0.23	
HP Hood LLC		105,132	10	0.21		-		-	
Hines VAF II Sacramento		-		-		479,888	1	1.23	
Teachers Ins. Annuity		-		-		168,732	2	0.43	
CIM Sacramento LLC		-		-		129,852	5	0.33	
Downtown Plaza LLC		-		-		128,747	6	0.33	
CLPF Promenade LP		-		-		125,265	7	0.32	
Sacramento Equities REIT		1,685,167		3.34		89,250 1,573,619	10	<u>0.23</u> 4.02	
All other taxpayers	-	48,667,234		96.66		37,204,388		95.98	
Total	\$	50,352,401		100.00 %	<u> </u>	38,778,007		100.00 %	

Source: County of Sacramento, Office of Auditor/Controller

Exhibit D

GENERAL FUND OBLIGATION DEBT SERVICE, AS OF JUNE 30, 2019

Forecasted Fiscal Year Net General Fund Revenues

(FY2019-20) 503,100,310

Fiscal Year	1993 Lease Revenue Bonds, Series A&B ¹	1997 Lease Revenue Bonds (2017 Remarketing) ²	2016 Refunding H Street Complex	2006 Capital Improvement Revenue Bonds, Series B ³	2006 Capital Improvement Revenue Bonds, Series E ⁴	2015 Lease Revenue Bonds (Golden 1 Center) 5	2015 Revenue Refunding Bonds ⁶	Total General Fund-related Leases & Loans Amount ⁷	Total Debt Service Obligations Amount	Gross Percentage of Budgeted Fiscal Year General Fund Revenues ⁸	Total Offset Debt Service Amount	Total General Fund Debt Service Amount	Net Percentage of Budgeted Fiscal Year General Fund Revenues
FY20	15,369,890	-	674,592	3,952,298	9,568,899.99	18,299,225	21,259,138	2,121,686	71,245,728	14.2%	49,588,585	21,657,143	4.3%
FY21	15,348,515	-	671,315	3,942,040	9,035,250.00	18,378,689	21,082,763	1,121,975	69,580,547	13.8%	48,751,096	20,829,450	4.1%
FY22	-	-	672,683	3,941,923	10,749,050.00	18,378,701	19,645,288	138,659	53,526,303	10.6%	36,787,244	16,739,059	3.3%
FY23	-	-	673,696	3,940,606	20,588,900.00	18,289,067	9,928,813	69,330	53,490,411	10.6%	36,576,657	16,913,754	3.4%
FY24	-	-	669,283	3,937,750	20,121,668.75	18,289,067	9,922,438	-	52,940,206	10.5%	36,050,050	16,890,157	3.4%
FY25	-	-	674,515	3,933,765	20,020,668.75	18,289,286	9,925,688	-	52,843,922	10.5%	36,014,190	16,829,732	3.3%
FY26	-	-	669,250	3,928,351	20,036,856.25	18,286,258	9,898,313	-	52,819,027	10.5%	35,992,339	16,826,688	3.3%
FY27	-	-	673,630	3,926,060	20,030,900.00	18,289,420	9,904,438	-	52,824,447	10.5%	35,992,936	16,831,511	3.3%
FY28	-	-	672,442	3,926,294	20,031,225.00	18,287,643	9,909,388	-	52,826,991	10.5%	35,998,479	16,828,512	3.3%
FY29	-	-	670,899	3,923,604	20,127,975.00	18,285,364	9,896,838	-	52,904,680	10.5%	36,010,744	16,893,936	3.4%
FY30	-	-	673,859	3,917,692	20,128,787.50	18,286,739	9,897,256	-	52,904,333	10.5%	36,000,349	16,903,984	3.4%
FY31	-	-	676,251	3,908,259	20,128,793.75	18,285,638	5,854,175	-	48,853,116	9.7%	32,972,981	15,880,136	3.2%
FY32	-	-	668,146	3,909,556	20,130,500.00	18,286,217	5,844,050	-	48,838,469	9.7%	32,962,011	15,876,459	3.2%
FY33	-	-	334,686	3,900,987	20,136,150.00	18,282,349	5,394,175	-	48,048,347	9.6%	32,614,224	15,434,123	3.1%
FY34	-	-	-	3,892,251	3,632,925.00	18,283,188	5,384,550	-	31,192,914	6.2%	20,901,927	10,290,987	2.0%
FY35	-	-	-	3,892,453	-	18,282,324	5,130,175	-	27,304,951	5.4%	19,384,515	7,920,437	1.6%
FY36	-	-	-	3,880,993	-	18,283,630	5,120,800	-	27,285,423	5.4%	19,382,366	7,903,057	1.6%
FY37	-	-	-	3,872,424	-	18,280,697	5,120,400	-	27,273,521	5.4%	19,377,540	7,895,981	1.6%
FY38	-	-	-	-	-	18,282,397	-	-	18,282,397	3.6%	18,282,397	-	0.0%
FY39	-	-	-	-	-	18,282,040	-	-	18,282,040	3.6%	18,282,040	-	0.0%
FY40	-	-	-	-	-	18,278,216	-	-	18,278,216	3.6%	18,278,216	-	0.0%
FY41	-	-	-	-	-	18,279,516	-	-	18,279,516	3.6%	18,279,516	-	0.0%
FY42	-	-	-	-	-	18,278,967	-	-	18,278,967	3.6%	18,278,967	-	0.0%
FY43	-	-	-	-	-	18,279,878	-	-	18,279,878	3.6%	18,279,878	-	0.0%
FY44	-	-	-	-	-	18,275,276	-	-	18,275,276	3.6%	18,275,276	-	0.0%
FY45	-	-	-	-	-	18,273,469	-	-	18,273,469	3.6%	18,273,469	-	0.0%
FY46	-	-	-	-	-	18,277,204	-	-	18,277,204	3.6%	18,277,204	-	0.0%
FY47	-	-	-	-	-	18,273,943	-	-	18,273,943	3.6%	18,273,943	-	0.0%
FY48	-	-	-	-	-	18,271,713	-	-	18,271,713	3.6%	18,271,713	-	0.0%
FY49	-	-	-	-	-	18,272,978	-	-	18,272,978	3.6%	18,272,978	-	0.0%
FY50	-	-	_	-	-	18,269,919	-	_	18,269,919	3.6%	18,269,919	-	0.0%
Total	30.718.405	-	9,075,247	70,527,302	254.468.550	566.939.018	179.118.681	3.451.651	1,114,298,853	3.075	838.953.749	275,345,104	5.676
Offset	73.7%	#DIV/0!	100.0%	28.3%	63.7%	100.0%	30.8%	83.1%	, 11,200,000			. 0,0 .0,=0 .	

The figures above do not reflect the release of respective reserves for final debt service payment if cash reserves are held.

Source: City of Sacramento

 $^{^{(1)}}$ 1993 Lease A: 80.5% Community Center Fund, 11.5% General Fund, and 8.0% Culture and Leisure Fund

¹⁹⁹³ Lease B: 47.8% General Fund, 30.2 % Parking Fund, 13.0% Storm Drainage Fund, and 9.0% Community Center Fund

^{(2) 1997} Lease (ARCO Sublease): 1997 Lease Revenue Bonds (2017 Remarketing); On January 22, 2019 the Kings fulfilled their obligation under the lease agreements and the City redeemed the bonds.

^{(3) 2006} Capital Improvement Revenue Bonds, Series B: 71.7% General Fund and 28.3% RASA Master Lease (65th Street, Army Depot, North Sacramento, River District)

^{(4) 2006} Capital Improvement Revenue Bonds, Series E: 53.4% Water Fund, 36.4% General Fund, 8.0% North Natomas Fund, 1.1% RASA Master Lease (Stockton Boulevard), 0.9% Culture and Leisure Fund, and 0.2% Fleet Fund

^{(5) 2015} Lease Revenue Bonds (Golden 1 Center): 62.4% Lease Rental Payments from the Sacramento Kings or its affiliates and 37.6% Parking Fund.

^{(6) 2015} Refunding Revenue Bonds: 69.0% General Fund, 11.5% Water Fund, 9.6% Solid Waste Fund, 9.1% Parking Fund, 0.4% North Natomas Fund, 0.2% Fleet Fund, and 0.2% Culture and Leisure Fund.

⁽⁷⁾ Total leases and loans: 69.0% Parking Fund, 16.9% General Fund, and 14.1% Culture and Leisure Fund.

⁽⁸⁾ Data based on forecasted Fiscal Year 2019-20 Net General Fund Revenue of \$503,100,310.



GASB 68 Accounting Report

(CalPERS ID: 7903930500) Rate Plan Identifier: 1209

Prepared for
City of Sacramento
Miscellaneous Plan,
an Agent Multiple-Employer Defined
Benefit Pension Plan

Measurement Date of June 30, 2018

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Actuarial Certification

This report provides disclosure and reporting information as required under Governmental Accounting Standards Board Statement 68 (GASB 68) for the Miscellaneous Plan of the City of Sacramento (the "Plan"), an Agent Multiple-Employer Defined Benefit Pension Plan participating in the California Public Employees' Retirement System (CalPERS), for the measurement period ended June 30, 2018.

This report is to be viewed solely for the purpose of financial accounting requirements. Any usage of the contents provided in this report for purposes other than financial accounting requirements would be inappropriate.

This accounting report relies on liabilities and related validation work performed by the CalPERS Actuarial Office as part of the June 30, 2017 annual funding valuation for the Plan. The census data and benefit provisions underlying the liabilities were prepared as of June 30, 2017 and certified as part of the annual funding valuation by the CalPERS Actuarial Office. The June 30, 2017 liabilities, which were rolled forward to June 30, 2018 and used for this accounting report, are based on actuarial assumptions adopted by the CalPERS Board of Administration and consistent with the requirements of GASB 68. The assumptions and methods are internally consistent and reasonable for this Plan. The asset information used in this accounting report is provided by the CalPERS Financial Office.

With the provided liability and asset information, the total pension liability, net pension liability, deferred inflows and outflows and pension expense were developed for the measurement period using standard actuarial techniques.

The undersigned is an actuary for CalPERS, who is a member of the American Academy of Actuaries and the Society of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

MAY SHUANG YU, ASA, MAAA Senior Pension Actuary, CalPERS

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Introduction

This is the GASB 68 accounting report for the measurement date June 30, 2018. Notes to the Agent Multiple-Employer Defined Benefit Pension Plan GASB 68 accounting reports are in a separate document, which may be accessed on the CalPERS website at www.calpers.ca.gov.

GASB 68 requires that the reported results must pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used.

Valuation Date June 30, 2017

Measurement Date June 30, 2018

Measurement Period June 30, 2017 to June 30, 2018

Pension Plan Fiduciary Net Position

The plan fiduciary net position disclosed in your GASB 68 accounting report may differ from the plan assets reported in your funding actuarial valuation report due to several reasons. For example, for the accounting reports, CalPERS must keep items such as deficiency reserves and fiduciary self-insurance included as assets. These amounts are excluded for rate setting purposes in your funding actuarial valuation.

Changes in the Net Pension Liability

The following table shows the changes in net pension liability recognized over the measurement period.

	Increase (Decrease)					
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability/(Asset) (c) = (a) - (b)			
Balance at: 06/30/2017	\$1,256,578,743	\$906,649,582	\$349,929,161			
Beginning of Year Adjustment	\$0	\$0	\$0			
Adjusted Balance at: 06/30/2017	\$1,256,578,743	\$906,649,582	\$349,929,161			
Changes Recognized for the Measurement Period:						
Service Cost	\$28,403,688		\$28,403,688			
Interest on Total Pension Liability	89,060,339		89,060,339			
Changes of Benefit Terms	0		0			
Changes of Assumptions	(7,898,485)		(7,898,485)			
Differences between Expected and Actual Experience	6,909,054		6,909,054			
Net Plan to Plan Resource Movement		\$(1,746)	1,746			
Contributions – Employer		29,514,351	(29,514,351)			
Contributions – Employees		12,633,667	(12,633,667)			
Net Investment Income		76,765,652	(76,765,652)			
Benefit Payments, including Refunds of Employee Contributions	(48,383,999)	(48,383,999)	0			
Administrative Expense		(1,412,810)	1,412,810			
Other Miscellaneous Income/(Expense) ¹		(2,682,950)	2,682,950			
Net Changes during 2017-18	\$68,090,597	\$66,432,165	\$1,658,432			
Balance at: 06/30/2018	\$1,324,669,340	\$973,081,747	\$351,587,593			

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

	Discount Rate -1% 6.15%	Current Discount Rate 7.15%	Discount Rate + 1% 8.15%
Plan's Net Pension Liability/(Asset)	\$542,527,902	\$351,587,593	\$194,713,685

During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

Pension Expense/(Income) for Measurement Period Ended June 30, 2018

Description	Amount
Service Cost	\$28,403,688
Interest on Total Pension Liability	89,060,339
Changes of Benefit Terms	0
Recognized Changes of Assumptions	24,408,411
Recognized Differences between Expected and Actual Experience	1,972,039
Net Plan to Plan Resource Movement	1,746
Employee Contributions	(12,633,667)
Projected Earnings on Pension Plan Investments	(64,336,361)
Recognized Differences between Projected and Actual Earnings on Plan Investments	(2,530,579)
Administrative Expense	1,412,810
Other Miscellaneous (Income)/Expense ¹	2,682,950
Total Pension Expense/(Income)	\$68,441,376

During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

Deferred Outflows and Deferred Inflows of Resources Related to Pensions

The following table presents deferred outflows and deferred inflows of resources related to pensions as of June 30, 2018. Note that no adjustments have been made for contributions subsequent to the measurement date. Appropriate treatment of any contributions made after the measurement date is the responsibility of the employer.

	Deferred Outflows of Resources	Deferred Inflows of Resources
Changes of Assumptions	\$21,705,621	\$(5,174,869)
Differences between Expected and Actual Experience	4,526,622	(239,423)
Net Difference between Projected and Actual Earnings on Pension Plan Investments	1,780,020	0
Total	\$28,012,263	\$(5,414,292)

Amounts reported as deferred outflows and deferred inflows of resources related to pensions will be recognized in future pension expense as follows:

Measurement Periods Ended June 30:	Deferred Outflows/(Inflows) of Resources
2019	\$32,102,345
2020	2,116,582
2021	(9,135,097)
2022	(2,485,859)
2023	0
Thereafter	0

Note: For employers with June 30 year-end, the fiscal year will be one year later than the measurement period. For example, the 2019 measurement period presented in the above table will be listed as year 2020 in the employer's fiscal year ending June 30, 2019 financial statements.

Expected Average Remaining Service Lifetime (EARSL)

The EARSL for the Plan for the measurement period ending June 30, 2018 is 2.9 years, which was obtained by dividing the total service years of 26,895 (the sum of remaining service lifetimes of the active employees) by 9,363 (the total number of participants: active, inactive, and retired). Inactive employees and retirees have remaining service lifetimes equal to 0. Total future service is based on the members' probability of decrementing due to an event other than receiving a cash refund.

Schedules of Required Supplementary Information

Schedule of Changes in Net Pension Liability and Related Ratios for the Measurement Periods Ended June 30

Measurement Period	2018	2017	2016	2015	2014
TOTAL PENSION LIABILITY:					
Service Cost	\$28,403,688	\$27,795,727	\$23,374,624	\$22,342,045	\$23,109,946
Interest on Total Pension Liability	89,060,339	84,334,185	79,514,856	74,834,991	70,942,490
Changes of Benefit Terms	0	0	0	0	0
Changes of Assumptions	(7,898,485)	75,969,675	0	(20,152,867)	0
Difference between Expected and Actual Experience	6,909,054	(837,981)	(333,340)	(8,865,289)	0
Benefit Payments, Including Refunds of Employee					
Contributions	(48,383,999)	(42,304,813)	(37,980,223)	(34,390,309)	(30,239,753)
Net Change in Total Pension Liability	\$68,090,597	\$144,956,793	\$64,575,917	\$33,768,571	\$63,812,683
Total Pension Liability – Beginning	1,256,578,743	1,111,621,950	1,047,046,033	1,013,277,462	949,464,779
Total Pension Liability – Ending (a)	\$1,324,669,340	\$1,256,578,743	\$1,111,621,950	\$1,047,046,033	\$1,013,277,462
PLAN FIDUCIARY NET POSITION					
Contributions – Employer	\$29,514,351	\$28,719,315	\$25,962,718	\$22,826,829	\$21,613,131
Contributions – Employee	12,633,667	12,190,145	11,991,032	11,302,316	11,670,231
Net Investment Income	76,765,652	91,481,199	4,260,663	18,046,623	118,325,674
Benefit Payments, Including Refunds of Employee					
Contributions	(48,383,999)	(42,304,813)	(37,980,223)	(34,390,309)	(30,239,753)
Net Plan to Plan Resource Movement	(1,746)	73,647	530,976	(3,066,289)	0
Administrative Expense	(1,412,810)	(1,207,275)	(495,742)	(921,940)	0
Other Miscellaneous Income/(Expense) ¹	(2,682,950)	0	0	0	0
Net Change in Fiduciary Net Position	\$66,432,165	\$88,952,218	\$4,269,424	\$13,797,230	\$121,369,283
Plan Fiduciary Net Position – Beginning ²	\$906,649,582	\$817,697,364	\$813,427,940	\$799,630,710	\$678,261,427
Plan Fiduciary Net Position – Ending (b)	973,081,747	906,649,582	817,697,364	813,427,940	799,630,710
Plan Net Pension Liability/(Asset) – (a)-(b)	\$351,587,593	\$349,929,161	\$293,924,586	\$233,618,093	\$213,646,752
Plan Fiduciary Net Position as a Percentage of the					
Total Pension Liability	73.46%	72.15%	73.56%	77.69%	78.92%
Covered Payroll	\$181,331,004	\$176,795,109	\$166,402,958	\$157, 44 9,221	\$156,032,311
Plan Net Pension Liability/(Asset) as a Percentage of					
Covered Payroll	193.89%	197.93%	176.63%	148.38%	136.92%

¹ During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

² Includes any beginning of year adjustment.

Schedules of Required Supplementary Information (continued)

Notes to Schedule of Changes in Net Pension Liability and Related Ratios:

Benefit Changes: The figures above do not include any liability impact that may have resulted from plan changes which occurred after the June 30, 2017 valuation date. This applies for voluntary benefit changes as well as any offers of Two Years Additional Service Credit (a.k.a. Golden Handshakes).

Changes of Assumptions: In 2018, demographic assumptions and inflation rate were changed in accordance to the CalPERS Experience Study and Review of Actuarial Assumptions December 2017. There were no changes in the discount rate. In 2017, the discount rate was reduced from 7.65 percent to 7.15 percent. In 2016, there were no changes. In 2015, amounts reported reflect an adjustment of the discount rate from 7.5 percent (net of administrative expense) to 7.65 percent (without a reduction for pension plan administrative expense.) In 2014, amounts reported were based on the 7.5 percent discount rate.

Schedule of Plan Contributions for the Fiscal Years Ended June 301

Employer Fiscal Year End	2018	2017	2016	2015	2014
Actuarially Determined Contribution ²	\$29,514,351	\$28,719,315	\$25,962,718	\$22,826,829	\$21,613,131
Contributions in Relation to the Actuarially Determined Contribution ²	(29,514,351)	(28,719,315)	(25,962,718)	(22,826,829)	(21,613,131)
Contribution Deficiency (Excess)	\$0	\$0	\$0	\$0	\$0
Covered Payroll ³	\$181,331,004	\$176,795,109	\$166,402,958	\$157,449,221	\$156,032,311
Contributions as a Percentage of Covered Payroll ³	16.28%	16.24%	15.60%	14.50%	13.85%

¹ As prescribed in GASB 68, paragraph 46, the information presented in the Schedule of Plan Contributions should also be presented as of the employer's most recent fiscal year-end. The employer is responsible for determining this information as prescribed by the standard as this data is not available to CalPERS.

² Employers are assumed to make contributions equal to the actuarially determined contributions. However, some employers may choose to make additional contributions towards their unfunded liability. Employer contributions for such plans exceed the actuarially determined contributions.

³ Includes one year's payroll growth using 2.75 percent payroll assumption for fiscal year ended June 30, 2018; 3.00 percent payroll assumption for fiscal years ended June 30, 2014-17.

Schedules of Required Supplementary Information (continued)

Notes to Schedule of Plan Contributions:

The actuarial methods and assumptions used to set the actuarially determined contributions for Fiscal Year 2017-18 were derived from the June 30, 2015 funding valuation report.

Actuarial Cost Method	Entry Age Normal
Amortization Method/Period	For details, see June 30, 2015 Funding Valuation Report.
Asset Valuation Method	Market Value of Assets. For details, see June 30, 2015 Funding Valuation Report.
Inflation	2.75%
Salary Increases	Varies by Entry Age and Service
Payroll Growth	3.00%
Investment Rate of Return	7.50% Net of Pension Plan Investment and Administrative Expenses; includes Inflation.
Retirement Age	The probabilities of Retirement are based on the 2014 CalPERS Experience Study for the period from 1997 to 2011.
Mortality	The probabilities of mortality are based on the 2014 CalPERS Experience Study for the period from 1997 to 2011. Pre-retirement and Post-retirement mortality rates include 20 years of projected mortality improvement using Scale BB published by the Society of Actuaries.

Other Information:

For changes to previous year's information, refer to past GASB 68 reports.

Appendices

- Appendix A Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions
- Appendix B Interest and Total Projected Earnings

Appendix A

Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

- Schedule of Changes of Assumptions
- Deferred Outflows of Resources and Deferred Inflows of Resources arising from Changes of Assumptions
- Schedule of Differences between Expected and Actual Experience
- Deferred Outflows of Resources and Deferred Inflows of Resources arising from Differences between Expected and Actual Experience
- Schedule of Differences between Projected and Actual Earnings on Pension Plan Investments
- Deferred Outflows of Resources and Deferred Inflows of Resources arising from Differences between Projected and Actual Earnings on Pension Plan Investments
- Summary of Recognized Deferred Outflows of Resources and Deferred Inflows of Resources

Schedule of Changes of Assumptions

Increase (Decrease) in Pension Expense arising from the Recognition of the Effects of Changes of Assumptions

Measurement Date	Changes of Assumptions	Remaining Recognition Period (Years)	2018	2019	2020	2021	2022	2023	Thereafter
2014	\$0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	(20,152,867)	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0
2017	75,969,675	1.8	27,132,027	21,705,621	0	0	0	0	0
2018	(7,898,485)	2.9	(2,723,616)	(2,723,616)	(2,451,253)	0	0	0	0
Net Increase (D	ecrease) in Pen	sion Expense	\$24,408,411	\$18,982,005	\$(2,451,253)	\$0	\$0	\$0	\$0

Deferred Outflows of Resources and Deferred Inflows of Resources arising from Changes of Assumptions

			Balances at J	Balances at June 30, 2018			
Measurement Date	Increase in Total Pension Liability (a)	Decrease in Total Pension Liability (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) – (c)		
2014	\$0	\$0	\$0	\$0	\$0		
2015	0	(20,152,867)	(20,152,867)	0	0		
2016	0	0	0	0	0		
2017	75,969,675	0	54,264,054	21,705,621	0		
2018	0	(7,898,485)	(2,723,616)	0	(5,174,869)		
				\$21,705,621	\$(5,174,869)		

Schedule of Differences between Expected and Actual Experience

Increase (Decrease) in Pension Expense arising from the Recognition of the Effects of Differences between Expected and Actual Experience

Measurement Date	Differences between Expected and Actual Experience	Remaining Recognition Period (Years)	2018	2019	2020	2021	2022	2023	Thereafter
2014	\$0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	(8,865,289)	0	0	0	0	0	0	0	0
2016	(333,340)	1.0	(111,114)	0	0	0	0	0	0
2017	(837,981)	1.8	(299,279)	(239,423)	0	0	0	0	0
2018	6,909,054	2.9	2,382,432	2,382,432	2,144,190	0	0	0	0
Net Increase (Decrease) in Pension	on Expense	\$1,972,039	\$2,143,009	\$2,144,190	\$0	\$0	\$0	\$0

Deferred Outflows of Resources and Deferred Inflows of Resources arising from Differences between Expected and Actual Experience

				Balances at J	une 30, 2018
Measurement Date	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) – (c)
2014	\$0	\$0	\$0	\$0	\$0
2015	0	(8,865,289)	(8,865,289)	0	0
2016	0	(333,340)	(333,340)	0	0
2017	0	(837,981)	(598,558)	0	(239,423)
2018	6,909,054	0	2,382,432	4,526,622	0
				\$4,526,622	\$(239,423)

Schedule of Differences between Projected and Actual Earnings on Pension Plan Investments

Increase (Decrease) in Pension Expense arising from the Recognition of the Differences between Projected and Actual Earnings on Pension Plan Investments

	Differences between Projected and Actual Earnings	Remaining Recognition							
Measurement Date	on Pension Plan Investments	Period (Years)	2018	2019	2020	2021	2022	2023	Thereafter
2014	\$(67,539,546)		\$(13,507,910)	\$0	\$0	\$0	\$0	\$0	\$0
2015	42,768,440	2.0	8,553,688	8,553,688	0	0	0	0	0
2016	57,793,697	3.0	11,558,739	11,558,739	11,558,741	0	0	0	0
2017	(33,246,191)	4.0	(6,649,238)	(6,649,238)	(6,649,238)	(6,649,239)	0	0	0
2018	(12,429,291)	5.0	(2,485,858)	(2,485,858)	(2,485,858)	(2,485,858)	(2,485,859)	0	0
Net Increase (D	ecrease) in Pensi	on Expense	\$(2,530,579)	\$10,977,331	\$2,423,645	\$(9,135,097)	\$(2,485,859)	\$0	\$0

Deferred Outflows of Resources and Deferred Inflows of Resources arising from Differences between Projected and Actual Earnings on Pension Plan Investments

				Balances at Ju	ıne 30, 2018
Measurement Date	Investment Earnings less than Projected (a)	Investment Earnings greater than Projected (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	Deferred Outflows of Resources (d) = (a) - (c)	Deferred Inflows of Resources (e) = (b) - (c)
2014	\$0	\$(67,539,546)	\$(67,539,546)	\$0	\$0
2015	42,768,440	0	34,214,752	8,553,688	0
2016	57,793,697	0	34,676,217	23,117,480	0
2017	0	(33,246,191)	(13,298,476)	0	(19,947,715)
2018	0	(12,429,291)	(2,485,858)	0	(9,943,433)
				\$31,671,168	\$(29,891,148)

Net Deferred Outflows/(Inflow	s) of Resources
(d) + (e)	
\$1,780,020	_

Note: GASB 68 paragraph 33 requires that deferred outflows of resources and deferred inflows of resources arising from differences between projected and actual pension plan investment earnings in different measurement periods should be aggregated and reported as a net deferred outflow or inflow.

Summary of Recognized Deferred Outflows of Resources and Deferred Inflows of Resources

Net Increase (Decrease) in Pension Expense

	2018	2019	2020	2021	2022	2023	Thereafter
Changes of Assumptions Differences between Expected and Actual	\$24,408,411	\$18,982,005	\$(2,451,253)	\$0	\$0	\$0	\$0
Experience Net Differences between Projected and Actual Earnings on Pension Plan	1,972,039	2,143,009	2,144,190	0	0	0	0
Investments	(2,530,579)	10,977,331	2,423,645	(9,135,097)	(2,485,859)	0	0
Grand Total	\$23,849,871	\$32,102,345	\$2,116,582	\$(9,135,097)	\$(2,485,859)	\$0	\$0

Appendix B

Interest and Total Projected Earnings

• Interest on Total Pension Liability and Total Projected Earnings

Total Interest on Total Pension Liability

Interest on Total Pension Liability and Total Projected Earnings

Interest on Total Pension Liability	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Interest on the Total Pension Liability (a) X (b) X (c)
Beginning Total Pension Liability	\$1,256,578,743	100%	7.15%	\$89,845,380
Changes of Benefit Terms	0	100%	7.15%	0
Changes of Assumptions	(7,898,485)	100%	7.15%	(564,742)
Difference between Expected and Actual Experience	6,909,054	100%	7.15%	493,997
Service Cost	28,403,688	50%	7.15%	1,015,432
Benefit Payments, including Refunds of Employee Contributions	(48,383,999)	50%	7.15%	(1,729,728)

Projected Earnings on Pension Plan Investments	Amount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	Projected Earnings (a) X (b) X (c)
Beginning Plan Fiduciary Net Position excluding Receivables ¹	\$904,975,977	100%	7.15%	\$64,705,782
Net Plan to Plan Resource Movement	(1,746)	50%	7.15%	(62)
Employer Contributions	29,514,351	50%	7.15%	1,055,138
Employee Contributions	12,633,667	50%	7.15%	451,654
Benefit Payments, including Refunds of Employee Contributions	(48,383,999)	50%	7.15%	(1,729,728)
Administrative Expense	(1,412,810)	50%	7.15%	(50,508)
Other Miscellaneous Income/(Expense) ²	(2,682,950)	50%	7.15%	(95,915)
Total Projected Earnings				\$64,336,361

¹ Includes any beginning of year adjustment. Contribution receivables for employee service buybacks, totaling \$1,673,605 as of June 30, 2017, were excluded for purposes of calculating projected earnings on pension plan investments.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

\$89,060,339

² During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.



GASB 68 Accounting Report

(CalPERS ID: 7903930500) Rate Plan Identifier: 1210

Prepared for
City of Sacramento
Safety Plan,
an Agent Multiple-Employer Defined
Benefit Pension Plan

Measurement Date of June 30, 2018

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Actuarial Certification

This report provides disclosure and reporting information as required under Governmental Accounting Standards Board Statement 68 (GASB 68) for the Safety Plan of the City of Sacramento (the "Plan"), an Agent Multiple-Employer Defined Benefit Pension Plan participating in the California Public Employees' Retirement System (CalPERS), for the measurement period ended June 30, 2018.

This report is to be viewed solely for the purpose of financial accounting requirements. Any usage of the contents provided in this report for purposes other than financial accounting requirements would be inappropriate.

This accounting report relies on liabilities and related validation work performed by the CalPERS Actuarial Office as part of the June 30, 2017 annual funding valuation for the Plan. The census data and benefit provisions underlying the liabilities were prepared as of June 30, 2017 and certified as part of the annual funding valuation by the CalPERS Actuarial Office. The June 30, 2017 liabilities, which were rolled forward to June 30, 2018 and used for this accounting report, are based on actuarial assumptions adopted by the CalPERS Board of Administration and consistent with the requirements of GASB 68. The assumptions and methods are internally consistent and reasonable for this Plan. The asset information used in this accounting report is provided by the CalPERS Financial Office.

With the provided liability and asset information, the total pension liability, net pension liability, deferred inflows and outflows and pension expense were developed for the measurement period using standard actuarial techniques.

The undersigned is an actuary for CalPERS, who is a member of the American Academy of Actuaries and the Society of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

MAY SHUANG YU, ASA, MAAA Senior Pension Actuary, CalPERS

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Introduction

This is the GASB 68 accounting report for the measurement date June 30, 2018. Notes to the Agent Multiple-Employer Defined Benefit Pension Plan GASB 68 accounting reports are in a separate document, which may be accessed on the CalPERS website at www.calpers.ca.gov.

GASB 68 requires that the reported results must pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used.

Valuation Date June 30, 2017

Measurement Date June 30, 2018

Measurement Period June 30, 2017 to June 30, 2018

Pension Plan Fiduciary Net Position

The plan fiduciary net position disclosed in your GASB 68 accounting report may differ from the plan assets reported in your funding actuarial valuation report due to several reasons. For example, for the accounting reports, CalPERS must keep items such as deficiency reserves and fiduciary self-insurance included as assets. These amounts are excluded for rate setting purposes in your funding actuarial valuation.

Changes in the Net Pension Liability

The following table shows the changes in net pension liability recognized over the measurement period.

	Increase (Decrease)			
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability/(Asset) (c) = (a) - (b)	
Balance at: 06/30/2017	\$1,824,826,526	\$1,233,345,915	\$591,480,611	
Beginning of Year Adjustment	\$0	\$0	\$0	
Adjusted Balance at: 06/30/2017	\$1,824,826,526	\$1,233,345,915	\$591,480,611	
Changes Recognized for the Measurement Period:				
Service Cost	\$38,385,859		\$38,385,859	
Interest on Total Pension Liability	127,930,127		127,930,127	
Changes of Benefit Terms	0		0	
Changes of Assumptions	(17,241,688)		(17,241,688)	
Differences between Expected and Actual Experience	3,954,107		3,954,107	
Net Plan to Plan Resource Movement		\$(3,555)	3,555	
Contributions – Employer		41,588,489	(41,588,489)	
Contributions – Employees		21,563,568	(21,563,568)	
Net Investment Income		104,660,890	(104,660,890)	
Benefit Payments, including Refunds of Employee Contributions	(82,998,648)	(82,998,648)	0	
Administrative Expense		(1,921,893)	1,921,893	
Other Miscellaneous Income/(Expense) ¹		(3,649,707)	3,649,707	
Net Changes during 2017-18	\$70,029,757	\$79,239,144	\$(9,209,387)	
Balance at: 06/30/2018	\$1,894,856,283	\$1,312,585,059	\$582,271,224	

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

	Discount Rate -1% 6.15%	Current Discount Rate 7.15%	Discount Rate + 1% 8.15%
Plan's Net Pension Liability/(Asset)	\$849,975,680	\$582,271,224	\$363,215,128

During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

Pension Expense/(Income) for Measurement Period Ended June 30, 2018

Description	Amount
Service Cost	\$38,385,859
Interest on Total Pension Liability	127,930,127
Changes of Benefit Terms	0
Recognized Changes of Assumptions	11,547,194
Recognized Differences between Expected and Actual Experience	556,527
Net Plan to Plan Resource Movement	3,555
Employee Contributions	(21,563,568)
Projected Earnings on Pension Plan Investments	(87,193,845)
Recognized Differences between Projected and Actual Earnings on Plan Investments	(3,745,940)
Administrative Expense	1,921,893
Other Miscellaneous (Income)/Expense ¹	3,649,707
Total Pension Expense/(Income)	\$71,491,509

During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

Deferred Outflows and Deferred Inflows of Resources Related to Pensions

The following table presents deferred outflows and deferred inflows of resources related to pensions as of June 30, 2018. Note that no adjustments have been made for contributions subsequent to the measurement date. Appropriate treatment of any contributions made after the measurement date is the responsibility of the employer.

	Deferred Outflows of Resources	Deferred Inflows of Resources
Changes of Assumptions	\$66,651,324	\$(21,004,676)
Differences between Expected and Actual Experience	9,299,357	(9,538,808)
Net Difference between Projected and Actual Earnings on Pension Plan Investments	3,433,052	0
Total	\$79,383,733	\$(30,543,484)

Amounts reported as deferred outflows and deferred inflows of resources related to pensions will be recognized in future pension expense as follows:

Measurement Periods Ended June 30:	Deferred Outflows/(Inflows) of Resources
2019	\$27,995,434
2020	19,639,223
2021	2,752,957
2022	(795,239)
2023	(752,126)
Thereafter	0

Note: For employers with June 30 year-end, the fiscal year will be one year later than the measurement period. For example, the 2019 measurement period presented in the above table will be listed as year 2020 in the employer's fiscal year ending June 30, 2019 financial statements.

Expected Average Remaining Service Lifetime (EARSL)

The EARSL for the Plan for the measurement period ending June 30, 2018 is 5.3 years, which was obtained by dividing the total service years of 15,183 (the sum of remaining service lifetimes of the active employees) by 2,887 (the total number of participants: active, inactive, and retired). Inactive employees and retirees have remaining service lifetimes equal to 0. Total future service is based on the members' probability of decrementing due to an event other than receiving a cash refund.

Schedules of Required Supplementary Information

Schedule of Changes in Net Pension Liability and Related Ratios for the Measurement Periods Ended June 30

Measurement Period	2018	2017	2016	2015	2014
TOTAL PENSION LIABILITY:					
Service Cost	\$38,385,859	\$37,372,520	\$31,672,063	\$29,653,042	\$29,538,887
Interest on Total Pension Liability	127,930,127	123,131,887	118,821,553	112,331,793	107,188,618
Changes of Benefit Terms	0	0	0	0	0
Changes of Assumptions	(17,241,688)	107,046,066	0	(28,604,249)	0
Difference between Expected and Actual Experience	3,954,107	(15,086,475)	14,397,639	(592,555)	0
Benefit Payments, Including Refunds of Employee					
Contributions	(82,998,648)	(78,231,814)	(74,572,323)	(70,544,699)	(66,215,114)
Net Change in Total Pension Liability	\$70,029,757	\$174,232,184	\$90,318,932	\$42,243,332	\$70,512,391
Total Pension Liability – Beginning	1,824,826,526	1,650,594,342	1,560,275,410	1,518,032,078	1,447,519,687
Total Pension Liability – Ending (a)	\$1,894,856,283	\$1,824,826,526	\$1,650,594,342	\$1,560,275,410	\$1,518,032,078
PLAN FIDUCIARY NET POSITION					
Contributions – Employer	\$41,588,489	\$40,608,891	\$36,000,897	\$30,798,271	\$27,934,662
Contributions – Employee	21,563,568	18,980,493	18,465,310	15,564,873	16,094,362
Net Investment Income	104,660,890	125,585,855	4,971,102	25,341,704	171,79 4 ,710
Benefit Payments, Including Refunds of Employee					
Contributions	(82,998,648)	(78,231,814)	(74,572,323)	(70,544,699)	(66,215,114)
Net Plan to Plan Resource Movement	(3,555)	(73,647)	(340)	533	0
Administrative Expense	(1,921,893)	(1,665,625)	(697,193)	(1,287,544)	0
Other Miscellaneous Income/(Expense) ¹	(3,649,707)	0	0	0	0
Net Change in Fiduciary Net Position	\$79,239,144	\$105,204,153	\$(15,832,547)	\$(126,862)	\$149,608,620
Plan Fiduciary Net Position – Beginning ²	\$1,233,345,915	\$1,128,141,762	\$1,143,974,309	\$1,1 44 ,101,171	\$994,492,551
Plan Fiduciary Net Position – Ending (b)	1,312,585,059	1,233,345,915	1,128,141,762	1,143,974,309	1,144,101,171
Plan Net Pension Liability/(Asset) – (a)-(b)	\$582,271,224	\$591,480,611	\$522,452,580	\$416,301,101	\$373,930,907
Plan Fiduciary Net Position as a Percentage of the					
Total Pension Liability	69.27%	67.59%	68.35%	73.32%	75.37%
Covered Payroll	\$132,205,472	\$126,437,920	\$120,120,082	\$112,067,431	\$107,176,397
Plan Net Pension Liability/(Asset) as a Percentage of					
Covered Payroll	440.43%	467.80%	434.94%	371.47%	348.89%

¹ During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

² Includes any beginning of year adjustment.

Schedules of Required Supplementary Information (continued)

Notes to Schedule of Changes in Net Pension Liability and Related Ratios:

Benefit Changes: The figures above do not include any liability impact that may have resulted from plan changes which occurred after the June 30, 2017 valuation date. This applies for voluntary benefit changes as well as any offers of Two Years Additional Service Credit (a.k.a. Golden Handshakes).

Changes of Assumptions: In 2018, demographic assumptions and inflation rate were changed in accordance to the CalPERS Experience Study and Review of Actuarial Assumptions December 2017. There were no changes in the discount rate. In 2017, the discount rate was reduced from 7.65 percent to 7.15 percent. In 2016, there were no changes. In 2015, amounts reported reflect an adjustment of the discount rate from 7.5 percent (net of administrative expense) to 7.65 percent (without a reduction for pension plan administrative expense.) In 2014, amounts reported were based on the 7.5 percent discount rate.

Schedule of Plan Contributions for the Fiscal Years Ended June 301

Employer Fiscal Year End	2018	2017	2016	2015	2014
Actuarially Determined Contribution ²	\$41,588,489	\$40,608,891	\$36,000,897	\$30,798,271	\$27,934,662
Contributions in Relation to the Actuarially Determined Contribution ²	(41,588,489)	(40,608,891)	(36,000,897)	(30,798,271)	(27,934,662)
Contribution Deficiency (Excess)	\$0	\$0	\$0	\$0	\$0
Covered Payroll ³	\$132,205,472	\$126,437,920	\$120,120,082	\$112,067,431	\$107,176,397
Contributions as a Percentage of Covered Payroll ³	31.46%	32.12%	29.97%	27.48%	26.06%

¹ As prescribed in GASB 68, paragraph 46, the information presented in the Schedule of Plan Contributions should also be presented as of the employer's most recent fiscal year-end. The employer is responsible for determining this information as prescribed by the standard as this data is not available to CalPERS.

² Employers are assumed to make contributions equal to the actuarially determined contributions. However, some employers may choose to make additional contributions towards their unfunded liability. Employer contributions for such plans exceed the actuarially determined contributions.

³ Includes one year's payroll growth using 2.75 percent payroll assumption for fiscal year ended June 30, 2018; 3.00 percent payroll assumption for fiscal years ended June 30, 2014-17.

Schedules of Required Supplementary Information (continued)

Notes to Schedule of Plan Contributions:

The actuarial methods and assumptions used to set the actuarially determined contributions for Fiscal Year 2017-18 were derived from the June 30, 2015 funding valuation report.

Actuarial Cost Method	Entry Age Normal
Amortization Method/Period	For details, see June 30, 2015 Funding Valuation Report.
Asset Valuation Method	Market Value of Assets. For details, see June 30, 2015 Funding Valuation Report.
Inflation	2.75%
Salary Increases	Varies by Entry Age and Service
Payroll Growth	3.00%
Investment Rate of Return	7.50% Net of Pension Plan Investment and Administrative Expenses; includes Inflation.
Retirement Age	The probabilities of Retirement are based on the 2014 CalPERS Experience Study for the period from 1997 to 2011.
Mortality	The probabilities of mortality are based on the 2014 CalPERS Experience Study for the period from 1997 to 2011. Pre-retirement and Post-retirement mortality rates include 20 years of projected mortality improvement using Scale BB published by the Society of Actuaries.

Other Information:

For changes to previous year's information, refer to past GASB 68 reports.

Appendices

- Appendix A Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions
- Appendix B Interest and Total Projected Earnings

Appendix A

Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

- Schedule of Changes of Assumptions
- Deferred Outflows of Resources and Deferred Inflows of Resources arising from Changes of Assumptions
- Schedule of Differences between Expected and Actual Experience
- Deferred Outflows of Resources and Deferred Inflows of Resources arising from Differences between Expected and Actual Experience
- Schedule of Differences between Projected and Actual Earnings on Pension Plan Investments
- Deferred Outflows of Resources and Deferred Inflows of Resources arising from Differences between Projected and Actual Earnings on Pension Plan Investments
- Summary of Recognized Deferred Outflows of Resources and Deferred Inflows of Resources

Schedule of Changes of Assumptions

Increase (Decrease) in Pension Expense arising from the Recognition of the Effects of Changes of Assumptions

Measurement Date	Changes of Assumptions	Remaining Recognition Period (Years)	2018	2019	2020	2021	2022	2023	Thereafter
2014	\$ 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	(28,604,249)	2.3	(5,397,028)	(5,397,028)	(1,619,109)	0	0	0	0
2016	0	0	0	0	0	0	0	0	0
2017	107,046,066	4.3	20,197,371	20,197,371	20,197,371	20,197,371	6,059,211	0	0
2018	(17,241,688)	5.3	(3,253,149)	(3,253,149)	(3,253,149)	(3,253,149)	(3,253,149)	(975,943)	0
Net Increase (D	ecrease) in Pen	sion Expense	\$11,547,194	\$11,547,194	\$15,325,113	\$16,944,222	\$2,806,062	\$(975,943)	\$0

Deferred Outflows of Resources and Deferred Inflows of Resources arising from Changes of Assumptions

				Balances at June 30, 2018		
Measurement Date	Increase in Total Pension Liability (a)	Decrease in Total Pension Liability (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) – (c)	
2014	\$0	\$0	\$0	\$0	\$0	
2015	0	(28,604,249)	(21,588,112)	0	(7,016,137)	
2016	0	0	0	0	0	
2017	107,046,066	0	40,394,742	66,651,324	0	
2018	0	(17,241,688)	(3,253,149)	0	(13,988,539)	
				\$66,651,324	\$(21,004,676)	

Schedule of Differences between Expected and Actual Experience

Increase (Decrease) in Pension Expense arising from the Recognition of the Effects of Differences between Expected and Actual Experience

Measurement Date	Differences between Expected and Actual Experience	Remaining Recognition Period (Years)	2018	2019	2020	2021	2022	2023	Thereafter
2014	\$0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	(592,555)	2.3	(111,803)	(111,803)	(33,540)	0	0	0	0
2016	14,397,639	3.2	2,768,777	2,768,777	2,768,777	553,754	0	0	0
2017	(15,086,475)	4.3	(2,846,505)	(2,846,505)	(2,846,505)	(2,846,505)	(853,950)	0	0
2018	3,954,107	5.3	746,058	746,058	746,058	746,058	746,058	223,817	0
Net Increase (Decrease) in Pension	on Expense	\$556,527	\$556,527	\$634,790	\$(1,546,693)	\$(107,892)	\$223,817	\$0

Deferred Outflows of Resources and Deferred Inflows of Resources arising from Differences between Expected and Actual Experience

				Balances at June 30, 2018		
Measurement Date	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) – (c)	
2014	\$0	\$0	\$0	\$0	\$0	
2015	0	(592,555)	(447,212)	0	(145,343)	
2016	14,397,639	0	8,306,331	6,091,308	0	
2017	0	(15,086,475)	(5,693,010)	0	(9,393,465)	
2018	3,954,107	0	746,058	3,208,049	0	
				\$9,299,357	\$(9,538,808)	

Schedule of Differences between Projected and Actual Earnings on Pension Plan Investments

Increase (Decrease) in Pension Expense arising from the Recognition of the Differences between Projected and Actual Earnings on Pension Plan Investments

Measurement Date	Differences between Projected and Actual Earnings on Pension Plan Investments	Remaining Recognition Period (Years)	2018	2019	2020	2021	2022	2023	Thereafter
2014	\$(98,188,251)	1.0	\$(19,637,651)	\$0	\$0	\$0	\$0	\$0	\$0
2015	61,061,962	2.0	12,212,392	12,212,394	0	0	0	0	0
2016	81,619,456	3.0	16,323,891	16,323,891	16,323,892	0	0	0	0
2017	(45,755,815)	4.0	(9,151,163)	(9,151,163)	(9,151,163)	(9,151,163)	0	0	0
2018	(17,467,045)	5.0	(3,493,409)	(3,493,409)	(3,493,409)	(3,493,409)	(3,493,409)	0	0
Net Increase (D	ecrease) in Pensi	on Expense	\$(3,745,940)	\$15,891,713	\$3,679,320	\$(12,644,572)	\$(3,493,409)	\$0	\$0

Deferred Outflows of Resources and Deferred Inflows of Resources arising from Differences between Projected and Actual Earnings on Pension Plan Investments

				Balances at June 30, 2018		
Measurement Date	Investment Earnings less than Projected (a)	Investment Earnings greater than Projected (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	Deferred Outflows of Resources (d) = (a) - (c)	Deferred Inflows of Resources (e) = (b) – (c)	
2014	\$0	\$(98,188,251)	\$(98,188,251)	\$0	\$0	
2015	61,061,962	0	48,849,568	12,212,394	0	
2016	81,619,456	0	48,971,673	32,647,783	0	
2017	0	(45,755,815)	(18,302,326)	0	(27,453,489)	
2018	0	(17,467,045)	(3,493,409)	0	(13,973,636)	
				\$44,860,177	\$(41,427,125)	

ı	Net Deferred Outflows/(Inflows) of Resources
	(d) + (e)
	\$3,433,052

Note: GASB 68 paragraph 33 requires that deferred outflows of resources and deferred inflows of resources arising from differences between projected and actual pension plan investment earnings in different measurement periods should be aggregated and reported as a net deferred outflow or inflow.

Summary of Recognized Deferred Outflows of Resources and Deferred Inflows of Resources

Net Increase (Decrease) in Pension Expense

	2018	2019	2020	2021	2022	2023	Thereafter
Changes of Assumptions Differences between Expected and Actual	\$11,547,194	\$11,547,194	\$15,325,113	\$16,944,222	\$2,806,062	\$(975,943)	\$0
Experience Net Differences between Projected and Actual Earnings on Pension Plan	556,527	556,527	634,790	(1,546,693)	(107,892)	223,817	0
Investments	(3,745,940)	15,891,713	3,679,320	(12,644,572)	(3,493,409)	0	0
Grand Total	\$8,357,781	\$27,995,434	\$19,639,223	\$2,752,957	\$(795,239)	\$(752,126)	\$0

Appendix B

Interest and Total Projected Earnings

• Interest on Total Pension Liability and Total Projected Earnings

Interest on Total Pension Liability and Total Projected Earnings

Interest on Total Pension Liability	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Interest on the Total Pension Liability (a) X (b) X (c)
Beginning Total Pension Liability	\$1,824,826,526	100%	7.15%	\$130,475,097
Changes of Benefit Terms	0	100%	7.15%	0
Changes of Assumptions	(17,241,688)	100%	7.15%	(1,232,781)
Difference between Expected and Actual Experience	3,954,107	100%	7.15%	282,719
Service Cost	38,385,859	50%	7.15%	1,372,294
Benefit Payments, including Refunds of Employee Contributions	(82,998,648)	50%	7.15%	(2,967,202)

Total Interest on Total Pension Liability \$127,930,127

Projected Earnings on Pension Plan Investments	Amount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	Projected Earnings (a) X (b) X (c)
Beginning Plan Fiduciary Net Position excluding Receivables ¹	\$1,232,205,212	100%	7.15%	\$88,102,673
Net Plan to Plan Resource Movement	(3,555)	50%	7.15%	(127)
Employer Contributions	41,588,489	50%	7.15%	1,486,788
Employee Contributions	21,563,568	50%	7.15%	770,898
Benefit Payments, including Refunds of Employee Contributions	(82,998,648)	50%	7.15%	(2,967,202)
Administrative Expense	(1,921,893)	50%	7.15%	(68,708)
Other Miscellaneous Income/(Expense) ²	(3,649,707)	50%	7.15%	(130,477)
Total Drainstad Farmings				¢07 102 04E

Total Projected Earnings \$87,193,845

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

¹ Includes any beginning of year adjustment. Contribution receivables for employee service buybacks, totaling \$1,140,703 as of June 30, 2017, were excluded for purposes of calculating projected earnings on pension plan investments.

² During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.



BARTEL SSOCIATES, LLC

City of Sacramento

Sacramento City Employees' Retirement System

June 30, 2018 GASBS 67 & 68 Reporting

November 21, 2018



GASBS 67 & 68 REPORTING

CITY OF SACRAMENTO SACRAMENTO CITY EMPLOYEES' RETIREMENT SYSTEM (SCERS) DEFINED BENEFIT PLAN

This report presents reporting and disclosure information for the Sacramento City Employees' Retirement System (SCERS) for the fiscal year ending June 30, 2018 to assist the City in preparing financial statement information in accordance with Governmental Accounting Standards Board Statements No. 67 and 68 (GASBS 67 and 68).

The report provides information intended for reporting under GASBS 67 and 68, but may not be appropriate for other purposes. Information provided in this report may be useful to the City for the System's financial management. Future results may differ significantly if the System's experience differs from our assumptions or if there are changes in plan design, actuarial methods, or actuarial assumptions. The project scope did not include an analysis of this potential variation.

This report is based on our June 30, 2018 actuarial valuation of the System and our report dated October 2018 which contains complete details of that valuation and is to be considered a part of this report.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. Additionally, in our opinion, actuarial methods and assumptions comply with GASBS 67 and 68. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

Mary Elizabeth Redding, FSA, MAAA, EA

Many Uzbete Reddin

Katherine Moore

Vice President

Katherine Moore, ASA, MAAA

Associate Actuary

Deanna Van Valer, ASA, MAAA, EA Assistant Vice President

Janua Vac Vale

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SECTION 1 GASBS 67 & 68 APPLICABLE DATES

Applicable Dates and Periods

Fiscal Year End	June 3	0, 2018
Reporting Standard	GASBS 67	GASBS 68
■ Reporting date ¹	June 30, 2018	June 30, 2018
■ Reporting period	FY 2018	FY 2018
■ Measurement date ²	N/A	June 30, 2018
■ Measurement period	N/A	July 1, 2017 to June 30, 2018
■ Actuarial valuation date ³	June 30, 2018	June 30, 2018

Within 30 months of fiscal year end.





¹ Employer's or plan's fiscal year-end.

No earlier than employer's prior fiscal year end.

SECTION 2 GASBS 67 AND 68 NOTE DISCLOSURES

Exhibit 1: Notes to Financial Statements (\$000's)

Net Pension Liability/(Asset)

(Amounts in 000's)

	Fiscal Year Ending		
	6/30/18	6/30/17	
■ Total pension liability (TPL)	\$324,669	\$336,878	
■ Fiduciary net position (FNP)	<u>286,609</u>	<u>288,509</u>	
■ Net pension liability (NPL)	38,060	48,369	
■ Funded status (FNP/TPL)	88.3%	85.6%	

Significant Assumptions and Other Inputs Used to Measure Total Pension Liability at 6/30/18:

- Discount Rate
- Inflation Rate
- Salary Scale
- Mortality Assumption for Service retirements & beneficiaries
- Mortality Assumption for Disability retirements

- 6.50%, net of investment expenses
- **2.75%**
- **3.25%**
- CalPERS 1997-2015 Post-Retirement Mortality Table projected fully generational with Society of Actuaries Scale MP-2017.
- CalPERS 1997-2015 Mortality Table for non-work Disabled Retirees for Miscellaneous and CalPERS 1997-2015 Mortality Table for work-related Disabled Retirees for Safety. Both tables were projected fully generational with Society of Actuaries Scale MP-2017.

<u>Changes of assumptions and changes in experience affecting the measurement of the Total</u> Pension Liability since the prior measurement date

Mortality improvement was changed from fully generational projection with Society of Actuaries Scale MP-2016 to fully generational projection with Society of Actuaries Scale MP-2017. Mortality tables were updated from the CalPERS 1997-2011 Experience Study to the CalPERS 1997-2015 Experience Study.

Discount rate

The discount rate was set equal to the long-term expected rate of return. The long-term expected rate of return was used since current assets, future City contributions, and future member contributions are projected to be sufficient to cover all future benefit payments and expenses. This "crossover test" was performed in accordance with the requirements specified in GASB Statement 67, including a projection that the Plan's funding policy will remain unchanged⁴. No administrative expenses were assumed to be paid from Trust assets since the City Charter requires the City to pay all administrative expenses.

The 6.50% long-term expected rate of return was derived based on the inflation assumption of 2.75% and a long-term asset allocation of 70% equities and 30% fixed income. The geometric

The current policy includes a change in the amortization period from 13 years to 5 years when the average future life expectancy of plan participants is below 5 years.





SECTION 2

GASBS 67 AND 68 NOTE DISCLOSURES

real rates of return were assumed to be 4.36% for US large cap equities, 4.93% for international equities and 1.47% for fixed income.

Date of actuarial valuation

The June 30, 2018 Total Pension Liability is based on an actuarial valuation as of June 30, 2018.

Sensitivity of the net pension liability to a 1% change in the discount rate

	1% Decrease 5.50%	Discount Rate 6.50%	1% Increase 7.50%
Net Pension Liability (NPL)	\$65,476	\$38,060	\$14,329





Page 3

SECTION 3

GASBS 67 AND 68 REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Changes in Net Pension Liability & Related Ratios⁵ (Amounts in \$000's)

Fiscal Year	2017/18
Total Pension Liability	
Service cost	\$ 92
Interest	20,877
Changes of benefit terms	0
Differences between expected and actual experience	(2,457)
Changes of assumptions	862
Benefit payments	(31,583)
Net change in Total Pension Liability	(12,209)
Total Pension Liability at beginning of year	336,878
Total Pension Liability at end of year	324,669
Fiduciary Net Position	
Contributions - employer	8,645
Contributions - member	55
Net investment income	20,983
Benefit payments	(31,583)
Administrative expenses	0
Other income	<u>0</u>
Net change in Fiduciary Net Position	(1,900)
Fiduciary Net Position at beginning of year	288,509
Fiduciary Net Position at end of year	286,609
Net Pension Liability (Asset) at end of year	38,060
Fiduciary Net Position as percentage of Total Pension Liability	88.3%
Covered-employee payroll	921
Net Pension Liability as percentage of Covered-employee Payroll	4132.5%

Notes to Schedule of Changes in Net Pension Liability & Related Ratios

The Total Pension Liability as of June 30, 2018 is based on an actuarial valuation as of June 30, 2018.

<u>Changes of Assumptions.</u> In 2017/18, mortality improvement was changed to use Society of Actuaries Scale MP-2017, and mortality rates were updated to the CalPERS 1997-2015 Experience Study.

<u>Differences between actual and expected experience.</u> The largest component for 2017/18 was there were more deaths than expected.

GASBS 67 and 68 require this information be reported in the Required Supplementary Information for 10 years or as many years are available upon implementation. Only the current year is shown in this report.





SECTION 3

GASBS 67 AND 68 REQUIRED SUPPLEMENTARY INFORMATION

Employer Actuarially Determined Contribution⁶ (Amounts in \$000's)

Fiscal Year	(1) Actuarially Determined Contribution (ADC)	(2) Employer Contributions in relation to the Actuarially Determined	(3) Contribution Deficiency (Excess) (1)-(2)	(4) Covered- Employee Payroll	(5) Employer Contribution / Covered- Employee Payroll
	(125 0)	Contribution	(1) (-)		(2)/(4)
2017/18	\$ 8,267	\$ 8,645	\$ (378)	\$921	938.7%

Significant Methods and Assumptions Used in Calculation of ADC for 2017/18

Actuarial Assumption	FY 2017/2018
 Actuarial valuation date 	■ June 30, 2016
■ Actuarial cost method	■ Entry Age Normal, level percent of payroll
■ Amortization method	Level dollar amount
Amortization period	■ 14 years open
■ Asset method	■ Actuarial value of assets
	■ Gains/losses recognized over 3 years
	■ Corridor of 85% - 115% of market value of assets
■ Inflation	■ 3.00%
■ Discount rate	■ 6.50%, net of investment expenses
■ Salary scale	3.5%
■ Mortality rate table	■ CalPERS' 1997-2011 Experience Study
	Mortality projected fully generational with Scale MP-2014 modified to converge to ultimate rates in 2022.
■ All other	■ Same as used in determining total pension liability for 2017/18

GASBS 67 and 68 require this information be reported in the Required Supplementary Information for 10 years or as many years are available upon implementation. Only the current year is shown in this report.





SECTION 4 GASBS 68 ADDITIONAL NOTE DISCLOSURES

Changes in Net Pension Liability/(Asset)

(Amounts in 000's)

	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability/ (Asset) (a) – (b)
■ Balances at FYE 6/30/2017	\$336,878	\$288,509	\$48,369
■ Changes for the year:			
 Service cost 	92		92
• Interest	20,877		20,877
 Change of assumptions 	862		862
• Change of benefit terms	0		0
 Differences between expected and actual experience 	(2,457)		(2,457)
 Contributions—employer 		8,645	(8,645)
• Contributions—member		55	(55)
 Net investment income 		20,983	(20,983)
 Benefit payments, including refunds of member contributions 	(31,583)	(31,583)	0
• Administrative expense ⁷	0	0	0
■ Net changes	(12,209)	(1,900)	(10,309)
■ Balances at FYE 6/30/2018	324,669	286,609	38,060

Pension Expense for Fiscal Year (Amounts in 000's)

	2017/18	
	\$ 2,336	

Pension Expense

No administrative expenses are paid from the trust. As required by City Charter, the City pays all administrative expenses of the plan.





SECTION 4 GASBS 68 ADDITIONAL NOTE DISCLOSURES

Balance of Deferred Outflows of Resources and Inflows of Resources as of June 30, 2018

(Amounts in 000's)

	Deferred Outflows of Resources	Deferred Inflows of Resources
■ Differences between expected and actual experience	\$ 0	\$ 0
■ Changes of assumptions and other inputs	0	0
■ Net difference between actual and projected earnings on investments	0	(2,163)
■ Employer contributions made subsequent to the Measurement Date	<u>N/A</u>	<u>N/A</u>
■ Total	0	(2,163)

Recognition of Deferred Outflows of Resources and Inflows of Resources in Future Pension Expense

(Amounts in 000's)

(Amounts in 600 s)							
Measurement Period Ended June 30:	Net Deferred Outflows/(Inflows) of Resources						
2019	\$1,027						
2020	(198)						
2021	(2,399)						
2022	(593)						
2023	0						
Thereafter	0						





Recognition of Deferred Outflows and Inflows of Resources

Differences between Actual and Expected Experience Changes in Assumptions and Other Inputs

The average expected remaining service lifetime (AERSL) for the plan is calculated as 18.0 years of total expected future service divided by 1,029 plan participants, resulting in 0.017 years. Since the AERSL is less than 1.0, a recognition period of 1.0 year is used. Therefore all deferred outflows and inflows of resources for differences between actual and expected experience, and for changes in assumptions and other inputs, are fully recognized immediately. No recognition schedules are maintained for these amounts.





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Recognition of Deferred Outflows and Inflows of Resources (cont.) (Amounts in 000's)

Projected Versus Actual Earnings on Investments

Measurement Period	2014/15	2015/16	2016/17	2017/18	Total
■ Initial amount*	\$6,135	\$11,007	\$(9,028)	\$(2,973)	
 Initial recognition period Amount recognized in pension expense for current and prior fiscal years: 	5	5	5	5	
• 2014/15	1,227	0	0	0	1,227
• 2015/16	1,227	2,201	0	0	3,428
• 2016/17	1,227	2,201	(1,806)	0	1,622
• 2017/18	1,227	2,201	(1,806)	(595)	1,027
Amount recognized in pension expense for future fiscal years:					
• 2018/19	1,227	2,201	(1,806)	(595)	1,027
• 2019/20	0	2,203	(1,806)	(595)	(198)
• 2020/21	0	0	(1,804)	(595)	(2,399)
• 2021/22	0	0	0	(593)	(593)
• 2022/23+	0	0	0	0	0
■ Deferred Outflows/(Inflows) as of FYE 6/30/18	1,227	4,404	(5,416)	(2,378)	
■ Net Deferred Outflows/(Inflows) as of FYE 6/30/18					(2,163)

^{*} For 2017/18 Projected earnings = \$18,010, actual earnings = \$20,983. Difference = (\$2,973)





Components of GASBS 68 Pension Expense for Fiscal Year (Amounts in 000's)

	FY 2017/18
■ Service cost	\$ 92
■ Interest on the total pension liability including service cost	20,877
■ Projected earnings on plan investments	(18,010)
■ Member contributions	(55)
■ Administrative expense	0
■ Recognition of deferred outflows and inflows of resources:	
Difference between expected and actual experience	(2,457)
 Changes in assumptions and other inputs 	862
• Difference between actual and projected earnings on investments	_1,027
■ Total Pension Expense	2,336

Calculation of Interest on the Total Pension Liability (Amounts in 000's)

	Dollar Amount	Expected Return	Portion of Year	Interest
■ Beginning Total Pension Liability	\$336,878	6.5%	1.0	\$21,897
■ Service Cost	92	6.5%	1.0	6
■ Benefit Payments	(31,583)	6.5%	0.5	(1,026)
■ Difference between expected and actual experience	(2,457)	6.5%	0.0	0
■ Changes of assumptions	862	6.5%	0.0	0
■ Interest on Total Pension Liability				20,877





<u>Calculation of Projected Earnings on Pension Plan Investments</u> (Amounts in 000's)

	Dollar Amount	Expected Return	Portion of Year	Projected Earnings
■ Beginning Fiduciary Net Position	\$288,509	6.5%	1.0	\$18,753
■ Employer Contributions	8,645	6.5%	0.5	281
Member Contributions	55	6.5%	0.5	2
■ Benefit Payments	(31,583)	6.5%	0.5	(1,026)
 Administrative Expenses 	0	6.5%	0.5	0
Projected Earnings on Investments				18,010

GASBS 68 Balance Equation

(Amounts in 000's)

	6/30/17	6/30/18	Change
■ Total Pension Liability	\$336,878	\$324,669	\$(12,209)
■ Fiduciary Net Position	<u>288,509</u>	<u>286,609</u>	(1,900)
■ Net Pension Liability/(Asset)	48,369	38,060	(10,309)
 Deferred inflows of resources 	0	2,163	2,163
Deferred outflows of resources	(1,837)	-	1,837
Employer contributions	<u>N/A</u>	8,645	8,645
 Net impact on balance sheet 	46,532	48,868	2,336
Check:			
Pension expense for year			\$2,336





Discount Rate "Crossover" Test

Projection of Contributions – amounts in \$000's

		Employer Contributions for Current	Contributions Contributions from Payroll for Current for Current of Future		Total
Year	Payroll	Employees	Employees	Employees	Contributions
1	\$745	\$5,268	\$39	\$0	\$5,307
2	503	4,410	26	0	4,437
3	338	4,025	18	0	4,042
4	208	3,705	11	0	3,715
5	142	3,435	7	0	3,442
6	67	3,091	4	0	3,095
7	36	2,992	2	0	2,994
8	19	2,671	1	0	2,672
9	6	2,523	0	0	2,523
10	2	2,383	0	0	2,383
11	2	2,250	0	0	2,250
12	0	2,124	0 0		2,124
13	0	2,005	0 0		2,005
14	0	1,892	0	0 0	
15	0	1,785	0	0 0	
16	0	1,685	0	0	1,685
17	0	1,589	0	0	1,589
18	0	1,499	0	0	1,499
19	0	1,414	0	0	1,414
20	0	2,759	0	0	2,759
21	0	2,259	0	0	2,259
22	0	1,847	0	0	1,847
23	0	1,508	0	0	1,508
24	0	1,230	0	0	1,230
25	0	1,001	0	0	1,001
*	*	*	*	*	*
51	0	2	0	0	2
52	0	2	0	0	2
53	0	1	0	0	1
54	0	1	0	0	1
55	0	1	0	0	1
56	0	1	0	0	1
57	0	0	0	0	0
*	*	*	*	*	*
71	0	0	0	0	0
72	0	0	0	0	0
73	0	0	0	0	0
74	0	0	0	0	0
75	0	0	0	0	0

Note: Years 26 to 50, and 58 to 70 omitted.





<u>Discount Rate "Crossover" Test</u> Projection of Fiduciary Net Position – amounts in \$000's

Year	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
1	\$286,609	\$5,307	\$31,158	\$0	\$17,789	\$278,547
2	278,547	4,437	30,900	0	17,245	269,329
3	269,329	4,042	30,482	0	16,647	259,537
4	259,537	3,715	29,950	0	16,017	249,320
5	249,320	3,442	29,362	0	15,363	238,763
6	238,763	3,095	28,692	0	14,688	227,853
7	227,853	2,994	27,968	0	13,999	216,878
8	216,878	2,672	27,198	0	13,300	205,652
9	205,652	2,523	26,390	0	12,592	194,377
10	194,377	2,383	25,550	0	11,882	183,092
11	183,092	2,250	24,682	0	11,172	171,832
12	171,832	2,124	23,786	0	10,465	160,635
13	160,635	2,005	22,864	0	9,763	149,539
14	149,539	1,892	21,917	0	9,069	138,583
15	138,583	1,785	20,943	0	8,385	127,810
16	127,810	1,685	19,943	0	7,714	117,265
17	117,265	1,589	18,917	0	7,059	106,996
18	106,996	1,499	17,868	0	6,423	97,050
19	97,050	1,414	16,797	0	5,808	87,475
20	87,475	2,759	15,709	0	5,265	79,790
21	79,790	2,259	14,610	0	4,785	72,224
22	72,224	1,847	13,506	0	4,316	64,881
23	64,881	1,508	12,406	0	3,863	57,846
24	57,846	1,230	11,318	0	3,432	51,189
25	51,189	1,001	10,251	0	3,027	44,966
*	*	*	*	*	*	*
51	1,502	2	238	0	90	1,356
52	1,356	2	222	0	81	1,217
53	1,217	1	207	0	72	1,083
54	1,083	1	191	0	64	956
55	956	1	176	0	56	836
56	836	1	162	0	49	724
57	724	0	147	0	42	619
*	*	*	*	*	*	*
71	13	0	5	0	1	9
72	9	0	2	0	1	8
73	8	0	1	0	0	7
74	7	0	0	0	0	7
75	7	0	0	0	0	7

Note: Years 26 to 50, and 58 to 70 omitted.





<u>Discount Rate "Crossover" Test</u> Present Values of Projected Benefit Payments – amounts in \$000's

Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	PV of "Funded" Benefit Payments	PV of "Unfunded" Benefit Payments	PV of Benefit Payments using 6.50% Discount Rate
1	\$286,609	\$31,158	\$31,158	\$0	\$29,256	\$0	\$29,256
2	278,547	30,900	30,900	0	27,243	0	27,243
3	269,329	30,482	30,482	0	25,234	0	25,234
4	259,537	29,950	29,950	0	23,281	0	23,281
5	249,320	29,362	29,362	0	21,431	0	21,431
6	238,763	28,692	28,692	0	19,664	0	19,664
7	227,853	27,968	27,968	0	17,998	0	17,998
8	216,878	27,198	27,198	0	16,434	0	16,434
9	205,652	26,390	26,390	0	14,973	0	14,973
10	194,377	25,550	25,550	0	13,611	0	13,611
11	183,092	24,682	24,682	0	12,346	0	12,346
12	171,832	23,786	23,786	0	11,172	0	11,172
13	160,635	22,864	22,864	0	10,083	0	10,083
14	149,539	21,917	21,917	0	9,076	0	9,076
15	138,583	20,943	20,943	0	8,143	0	8,143
16	127,810	19,943	19,943	0	7,281	0	7,281
17	117,265	18,917	18,917	0	6,485	0	6,485
18	106,996	17,868	17,868	0	5,751	0	5,751
19	97,050	16,797	16,797	0	5,077	0	5,077
20	87,475	15,709	15,709	0	4,458	0	4,458
21	79,790	14,610	14,610	0	3,893	0	3,893
22	72,224	13,506	13,506	0	3,379	0	3,379
23	64,881	12,406	12,406	0	2,915	0	2,915
24	57,846	11,318	11,318	0	2,497	0	2,497
25	51,189	10,251	10,251	0	2,123	0	2,123
*	*	*	*	*	*	*	*
51	1,502	238	238	0	10	0	10
52	1,356	222	222	0	8	0	8
53	1,217	207	207	0	7	0	7
54	1,083	191	191	0	6	0	6
55	956	176	176	0	6	0	6
56	836	162	162	0	5	0	5
57	724	147	147	0	4	0	4
*	*	*	*	*	*	*	*
71	13	5	5	0	0	0	0
72	9	2	2	0	0	0	0
73	8	1	1	0	0	0	0
74	7	0	0	0	0	0	0
75	7	0	0	0	0	0	0
Total					313,475	0	313,475

Note: Years 26 to 50, and 58 to 70 omitted.





Exhibit H





RETIREE HEALTHCARE PLAN

June 30, 2017 Actuarial Valuation Final Results

Bartel Associates, LLC

Mary Beth Redding, Vice President Catherine Wandro, Assistant Vice President & Actuary Daniel Park, Actuarial Analyst

March 9, 2018

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BENEFIT SUMMARY

	Fire Police & Miscellaneous		
■ Eligibility	■ Retire directly from the City:		
	• Age 50 & 10 years City service, or		
	• 30 years City service, or		
	Industrial disability, or		
	 Death in line of duty 		
■ Benefit for	■ Retiree only - lowest cost \$25 ■ Retiree only - \$300/mo		
Hires before	co-pay medical plan premium Retiree + Dependents - \$365/mo		
Plan Change	plus additional 5.28% of cost Service %		
Date	plus lowest cost PPO dental $\overline{10}$ $\overline{50}\%$		
N/ 1: 1	plan premium, plus \$25 15 75%		
Medical,	■ 2017 = \$794.69/mo 20+ 100%		
Dental &	2018 = \$834.73/mo ID&D 100%		
Vision	■ <u>Service</u> <u>%</u> ■ Retirees after 2014 in WCE, Auto		
	10 50% Marine & Specialty Painters, and		
	Unrepresented – not allowed to		
	20+ 100% participate in City health plans		
	ID&D 100% when Medicare-eligible		





BENEFIT SUMMARY

	Fire	Police & Miscellaneous
 Benefit for Hires after Plan Change Date¹ Medical, Dental & Vision 	 ■ Pre-Medicare - \$774/mo ■ Post-Medicare - \$387/mo ■ Service	■ No City cash contribution but allowed to participate in City health plans
■ Pre 1/1/91 Deferred Retirement	■ None	 Eligibility: Age 50 & 10 years Benefit: Pre-plan change benefit Service %/10 50%/20+ 100%
Surviving Spouse Benefit	■ Same benefit continues to surviving spouse	

Hired after 1/14/15 for Fire, after 9/3/13 for Police, after 6/30/12 for Exempt Employees and Stationary Engineers, after 7/20/12 for Unrepresented, after 11/15/14 for Plumbers and Pipe Fitters, and after 6/30/13 for remaining bargaining units.





BENEFIT SUMMARY

	Fire	Police & Miscellaneous
■ Other OPEB	■ No City contribution for life ins	surance or Medicare Part B premiums
■ Fire Department Unit Trust	 Effective 6/27/15 Sub-account in City's CERBT account Member Contribution: \$45/mo City Contribution: \$45/mo 	■ n/a
Pay-As- You-Go Costs (\$000's)	Fiscal Year Cash FY 2016/17 \$10,011 FY 2015/16 \$9,847 FY 2014/15 \$9,904 FY 2013/14 \$9,970 FY 2012/13 \$9,758 FY 2011/12 \$9,462 FY 2010/11 \$9,230	Implied Subsidy Total \$2,554 \$12,565 \$2,516 \$12,363 \$3,620 \$13,524 \$3,503 \$13,473 \$3,085 \$12,843 \$2,729 \$12,191 \$2,661 \$11,891





BENEFIT SUMMARY

Police & Miscellaneous Fire ■ Non-Medicare retirees pay blended rates instead of actual cost ■ Implied Subsidy ■ Active employee premiums subsidize non-Medicare retiree cost 2017 Kaiser HMO \$25 Co-Pay - Male \$1,600 \$1,400 \$1,200 \$1,000 \$200 ■ GASB OPEB includes active "implied subsidy" with retiree cost ■ Medical: • Value to age 65 for Medicare eligible retirees • Value for life for non-Medicare eligible retirees ■ Dental & vision: no implied subsidy valued





PARTICIPANT STATISTICS

Participant Statistics – June 30, 2017

	Misc	Police	Fire	Total
■ Actives				
• Count	2,393	761	562	3,716
 Average Age 	46.0	38.2	42.0	43.8
 Average City Service 	11.5	12.1	13.3	11.9
 Average PERSable Salary 	\$ 66,422	\$ 89,574	\$ 104,660	\$ 76,946
• Total Salary (\$000's)	158,947	68,166	58,819	285,932
■ Pre 1/1/91 Inactive Vested				
• Count	10	-	-	10
 Average Age 	67.0	1	ı	67.0
■ Retirees				
 Count - Medical 	1,133	314	400	1,847
• Count - Dental	1,583	518	472	2,573
• Count - Vision	675	229	241	1,145
• Count - In Lieu	102	46	41	189
• Count - Total	2,093	622	521	3,236
 Average Age 	71.3	66.9	71.0	70.4
 Average Retirement Age 	58.6	50.9	54.4	56.4





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PARTICIPANT STATISTICS

Participant Statistics – June 30, 2015

	Misc	Police	Fire	Total
■ Actives				
• Count	2,176	788	549	3,513
 Average Age 	47.2	38.2	41.6	44.3
 Average City Service 	13.1	12.3	13.1	12.9
 Average Salary 	\$ 70,078	\$ 84,709	\$ 93,689	\$ 77,050
• Total Salary (\$000's)	152,491	66,751	51,436	270,677
■ Pre 1/1/91 Inactive Vested				
• Count	18	1	-	19
 Average Age 	66.2	74.1	-	66.6
■ Retirees				
 Count - Medical 	1,109	309	397	1,815
 Count - Dental 	1,501	492	471	2,464
• Count - Vision	675	229	241	1,145
• Count - Total	2,007	593	524	3,124
 Average Age 	70.6	66.7	71.0	69.9
Average Retirement Age	58.3	50.9	54.3	56.2





ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	June 30, 2015 Valuation	June 30, 2017 Valuation
■ Valuation	■ June 30, 2015	■ June 30, 2017
Date	■ Fiscal Years 2016/17 & 2017/18	■ Fiscal Years 2018/19 & 2019/20
■ Discount Rate	■ 4.50% – Pre-fund with one time	■ 3.95%
	resources CERBT asset allocation strategy #1	 ■ Based on closed group crossover analysis following GASBS 75 methodology: • Projected City contributions of \$1.5 million per year • 6.75% rate for full ADC prefunding and S&P 20-year bond index rate (3.13% as of 6/30/17) for pay-go prefunding ■ CERBT asset allocation strategy #1 (57% global equity, 27% fixed income, 5% TIPS, 8% REITs, 3% commodities)





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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	June 30, 2015 Valuation	June 30, 2017 Valuation
■ Inflation	■ 3.00%	2 .75%
■ Retirement, Mortality, Termination, Disability	 CalPERS – 1997-2011 Experience Study SCERS – 6/30/13 Valuation Assumptions Mortality projected fully generational with Scale MP-14, modified to converge to ultimate improvement rates in year 2022 	 CalPERS – 1997-2011 Experience Study SCERS – 6/30/17 Valuation Assumptions (limited applicability) Mortality projected fully generational with Scale MP-16





ACTUARIAL ASSUMPTIONS HIGHLIGHTS

Participation
at Retirement

June 30, 2015 Valuation

■ Based on current retiree participation, varies by % of cash benefit earned at retirement:

% of Benefit Earned	Participation Assumption
0%	10%
50%	40%
75%	55%
100%	75%

June 30, 2017 Valuation

■ Based on retirements during fiscal years 2015 to 2017, varies by % of cash benefit earned at retirement:

	% of Benefit Earned				
Plan	0%	50%	75%	100%	
M&D&V	10%	23%	30%	35%	
D & V	10%	40%	35%	30%	
M & D	0%	10%	14%	20%	
M & V	0%	3%	0%	4%	
M Only	10%	12%	9.5%	7%	
D Only	10%	3%	1.5%	0.5%	
V Only	0%	0%	1%	0.5%	
M = Medical, D = Dental, V = Vision					

M = Medical, D = Dental, V = Vision





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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	June 30, 2015 Valuation			June	e 30, 2017 Val	luation
■ Medical Trend		Increase from Prior Year			Increase from	Prior Year
1/1001001 110110	Year	Non-Medicare	Medicare	Year	Non-Medicare	Medicare
	2015	Actual 2015	Premiums	2017	Actual 2017	Premiums
	2016	Actual 2016	Premiums	2018	Actual 2018	Premiums
	2017	7.0%	7.2%	2019	7.50%	6.50%
	2018	6.5%	6.7%	2020	7.50%	6.50%
	2019	6.0%	6.1%	2021	7.25%	6.30%
	2020	5.5%	5.6%	2022	7.00%	6.10%
	2021+	5.0%	5.0%	2023	6.75%	5.90%
	2021	3.070	5.070	2024	6.50%	5.70%
				2025	6.25%	5.50%
				2026	6.00%	5.30%
				2027	5.80%	5.15%
				2028	5.60%	5.00%
				2029	5.40%	4.85%
				2030	5.20%	4.70%
				2031-35	5.05%	4.60%
				2036-45	4.90%	4.50%
				2046-55	4.75%	4.45%
				2056-65	4.60%	4.40%
				2066-75	4.30%	4.20%
				2076+	4.00%	4.00%





ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	June 30, 2015 Valuation	June 30, 2017 Valuation
■ Dental & Vision Trend	3 .00%	2 .75%
■ Cap Increase Rates	 Fire hired <1/14/15: Lowest cost \$25 co-pay medical premium – medical trend Lowest cost PPO dental premium – dental trend All Misc, All Police, and Fire hired ≥ 1/14/15: 3% starting 2017 	 Fire hired <1/14/15: Lowest cost \$25 co-pay medical premium – medical trend Lowest cost PPO dental premium – dental trend All Misc, All Police, and Fire hired ≥ 1/14/15: 0%
AffordableCare Act(ACA) ExciseTax	■ n/a	■ 2% liability load on cash subsidy to estimate impact





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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	June 30, 2015 Valuation	June 30, 2017 Valuation		
■ Basis for	■ No experience study performed f	or this Plan with the exception of		
Assumptions	the participation at retirement assumption, which is based on			
	retirements during fiscal years 2015 to 2017.			
	■ CalPERS January 2014 experience study covering 1997 to 2011			
	experience was used			
	■ Mortality improvement based on Society of Actuaries tables			
	■ Inflation based on the Plan's very long time horizon			
	■ Age-based claims are based on factors published by the Society of			
	Actuaries			
	■ Medical trend based on Society of	f Actuaries Getzen Model		





ACTUARIAL METHODS

Method	June 30, 2015 Valuation	June 30, 2017 Valuation	
■ Cost Method	■ Entry Age Normal		
■ Funding Policy	■ Continue budget appropriations as well as contribute one time resources into CERBT asset allocation strategy #1		
Actuarial Value of Assets	 Not less than 80% nor mor Allocation to Misc/Police/Fire: Fire Department Unit Trus 	read over 5-year rolling period e than 120% of market value t assets allocated to Fire group to Misc/Police/Fire in proportion to	
Amortization Method	■ Level percent of payroll		





ACTUARIAL METHODS

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Method	June 30, 2015 Valuation	June 30, 2017 Valuation		
Amortization Period	■ 20 year closed amortization of 6/30/14 UAAL	■ 20 year closed amortization of 6/30/18 UAAL		
	■ 15 years (closed) – subsequent gains/losses, assumption changes, and method changes			
■ Implied Subsidy	 Employer cost for allowing non Medicare-eligible retirees to participate at active rates Medical - implied subsidy valued until Medicare eligible Dental & vision – no implied subsidy valued 			



ASSETS

Market Value of Plan Assets (Amounts in 000's)

		2015/16			2016/17	
		Fire Unit				
Market Value of Assets	City	Trust	Total	City	Trust	Total
■ MVA (Beg. of Year)	\$5,239	\$ 0	\$5,239	\$14,509	\$ 595	\$15,104
 Contribution 	8,453	573^{2}	9,026	8,743	570^{3}	9,313
 Benefit Payment 	(0)	(0)	(0)	(0)	(0)	(0)
• Admin. Expenses	(5)	(0)	(5)	(9)	(1)	(10)
• Inv. Expenses	(3)	(0)	(3)	(7)	(0)	(7)
• Investment Return	<u>825</u>		847	1,947	94	2,041
■ MVA (End of Year)	14,509	595	15,104	25,183	1,258	26,441
■ Approx. Annual Return			8.7%			10.2%

Includes \$23,760 year-end accrual contribution. Includes reversal of \$23,760 prior year-end accrual contribution.



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ASSETS

Market Value of Plan Assets (Amounts in 000's)

	Projected 2017/18				
Mauliot Value of Assots	C:4-	Fire Unit	Total		
Market Value of Assets	City	Trust	Total		
■ MVA (Beg. of Year)	\$25,183	\$1,258	\$26,441		
 Contribution 	893	607^{4}	$1,500^5$		
 Benefit Payment 	(0)	(0)	(0)		
• Admin. Expenses	(10)	(1)	(11)		
• Inv. Expenses	-	-	-		
• Net Investment Return ⁶	1,730	<u>105</u>	1,835		
■ MVA (End of Year)	27,796	1,969	29,765		
■ Projected Annual Return			6.75%		

Estimated: \$45 each City/employee monthly contribution times number of Fire employees. Assumes \$1.5 million total contribution for 2017/18.

Expected investment return of 6.75%.





ASSETS

Actuarial Value of Plan Assets (Amounts in 000's)

	2015/16				2016/17	
Actuarial Value of Assets	City	Fire	Total	City	Fire	Total
■ AVA (Beginning of Year)	\$5,461	\$ 0	\$5,461 ⁷	\$14,595	\$594	\$15,189
• Employer/Employee Contribution	8,453	573	9,026	8,743	570	9,313
 Benefit Payment 	-	-	-	-	-	-
• Expected Investment Return ⁸	702	21	723	1,375	64	1,439
■ Expected AVA (End of Year)	14,616	594	15,210	24,713	1,228	25,941
■ MVA (End of Year)	14,509	595	15,104	25,183	1,258	26,441
■ 1/5 of (MVA – Expected AVA)	(21)	(0)	(21)	94	6	100
■ Preliminary AVA ⁹	14,595	594	15,189	24,807	1,234	26,041
• Minimum AVA (80% of MVA)	11,607	476	12,083	20,147	1,006	21,153
• Maximum AVA (120% of MVA)	17,411	714	18,125	30,220	1,509	31,729
■ AVA (End of Year)	14,595	594	15,189	24,807	1,234	26,041
■ Approximate Annual Return			7.1%			7.8%

Revised based on actual 6/30/16 MVA.

Expected AVA plus 20% of the difference between the MVA and expected AVA.



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ASSETS

Actuarial Value of Plan Assets (Amounts in 000's)

	Projected 2017/18		
Actuarial Value of Assets	City	Fire	Total
■ AVA (Beginning of Year)	\$24,807	\$1,234	\$26,041
 Employer/Employee Contribution 	893	607	1,500
Benefit Payment	-	-	-
 Expected Investment Return¹⁰ 	1,705	103	1,808
■ Expected AVA (End of Year)	27,405	1,944	29,349
■ MVA (End of Year)	27,796	1,969	29,765
■ 1/5 of (MVA – Expected AVA)	78	5	83
■ Preliminary AVA ¹¹	27,483	1,949	29,432
 Minimum AVA (80% of MVA) 	22,237	1,575	23,812
 Maximum AVA (120% of MVA) 	33,355	2,363	35,718
■ AVA (End of Year)	27,483	1,949	29,432
■ Approximate Annual Return			7.1%

Expected investment return of 6.75%.

Expected AVA plus 20% of the difference between the MVA and expected AVA.

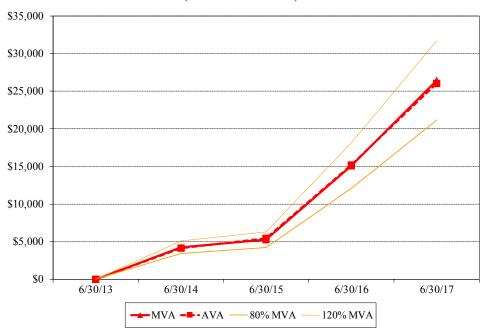




Expected investment return of 7.25%.

ASSETS

Historical and Projected Value of Plan Assets (Amounts in \$000's)



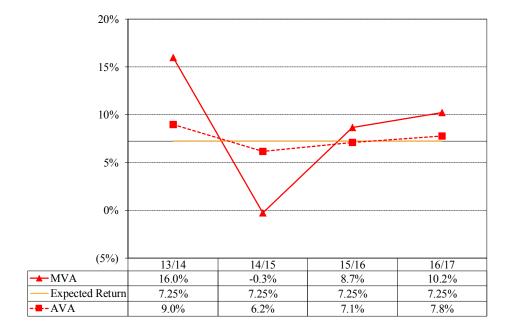




ASSETS

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Annualized Asset Returns







Actuarial Obligations (Amounts in 000's)

	6/30/15 Valuation		6/30/17 V	Valuation
Discount Rate	4.50%		3.95%	
		Projected		Projected
	6/30/15	to 6/30/16	6/30/17	to 6/30/18
■ Present Value of Benefits				
 Actives 	\$296,447		\$290,592	
 Retirees 	194,312		<u>248,926</u>	
• Total	490,759		539,518	
■ Actuarial Accrued Liability				
 Actives 	168,512		167,031	
 Retirees 	194,312		<u>248,926</u>	
• Total	362,824	\$378,534	415,957	\$428,858
■ Actuarial Value of Assets	(5,461)	<u>(15,116)</u>	(26,041)	(29,432)
■ Unfunded AAL	357,363	363,418	389,916	399,426
■ AVA Funded Ratio	1.5%		6.3%	
■ Normal Cost		11,921		11,834
■ Pay-As-You-Go Cost		12,122		15,343



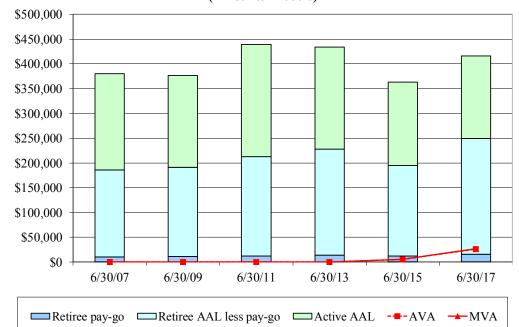


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RESULTS

Historical Actuarial Accrued Liability

(Amounts in 000's)



March 9, 2018



Estimated Actuarial Gain/Loss Analysis (Amounts in 000's)

	AAL
■ Actual on 6/30/15	\$362,824
■ Expected on 6/30/17	395,097
■ Experience (Gains)/Losses:	
 Premiums/Claims/Caps different than expected 	10,066
Demographic & other	(2,691)
■ Assumption Changes:	
 Updated Medical Trend / Inflation 	16,591
 Updated Age-Related Claims Cost Factors 	28,873
 Mortality Improvement Scale MP-16 	(9,771)
 ACA Excise Tax 	5,741
 Participation Assumption 	(8,913)
• 0% Flat Dollar Cap Increase Rate	(49,370)
Discount Rate	30,334
■ Total (Gains)/Losses	20,860
■ Actual on 6/30/17	415,957





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RESULTS

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Actuarially Determined Contribution (ADC) (Amounts in 000's)

	6/30/15 V	aluation	6/30/17 Valuation	
	2016/17	2017/18	2018/19	2019/20
■ ADC - \$				
 Normal Cost 	\$11,921	\$11,860	\$ 11,834	\$ 11,966
 UAAL Amortization 	<u>22,594</u>	<u>24,533</u>	<u>22,620</u>	<u>24,344</u>
• ADC (End of Year)	34,515	36,393	34,454	36,310
■ Projected Payroll	279,474	288,557	303,345	312,446
■ ADC - % Total Payroll				
 Normal Cost 	4.3%	4.1%	3.9%	3.8%
 UAAL Amortization 	8.1%	8.5%	7.5%	7.8%
• ADC	12.4%	12.6%	11.4%	11.6%



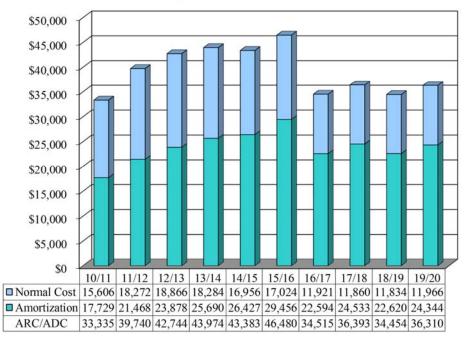


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RESULTS

Historical Actuarially Determined Contributions

(Amounts in 000's)







Estimated GASBS 45 Net OPEB Obligation (NOO) (Amounts in 000's)

	6/30/12 Val	6/30/13 Val		6/30/15 Val
	CAFR	CAFR	CAFR	Est.
	2013/14	2014/15	2015/16	2016/17
■ NOO Beginning of Year	\$131,739	\$154,197	\$180,984	\$202,722
■ Annual OPEB Cost				
• ARC	43,974	43,383	46,480	34,515
 Interest on NOO 	5,928	6,939	8,144	9,122
 Amortization of NOO 	<u>(9,971)</u>	(9,011)	(11,486)	(15,343)
 Annual OPEB Cost 	39,931	41,311	43,138	28,294
■ Contributions				
 Cash Benefit Payments 	(9,970)	(9,904)	(9,847)	(10,011)
 Implied Subsidy 	(3,503)	(3,620)	(2,516)	(2,554)
 Trust Pre-Funding 	(4,000)	(1,000)	(9,037)	(9,313)
Total Contribution	(17,473)	(14,524)	(21,400)	(21,878)
■ NOO End of Year	154,197	180,984	202,722	209,138
■ NOO Amort. Factor	13.2122	17.1121	15.7575	13.2127





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RESULTS

10-Year Projection Illustration (Amounts in 000's)

		Ben	efit Payn	ients				ADC	Contrib
FYE								as	as
June		Cash	Implied		Pre-	Total		% of	% of
30,	ADC	Subsidy	Subsidy	Total	Fund ¹²	Contrib	Payroll	Payroll	Payroll
2019	\$34,454	\$10,860	\$4,483	\$15,343	\$1,500	\$16,843	\$303,345	11.4%	5.6%
2020	36,310	11,252	4,932	16,184	1,500	17,684	312,446	11.6%	5.7%
2021	38,310	11,689	5,525	17,214	1,500	18,714	321,819	11.9%	5.8%
2022	40,484	12,126	5,982	18,108	1,500	19,608	331,474	12.2%	5.9%
2023	42,870	12,599	6,406	19,005	1,500	20,505	341,418	12.6%	6.0%
2024	45,506	13,064	7,079	20,143	1,500	21,643	351,660	12.9%	6.2%
2025	48,416	13,520	7,741	21,261	1,500	22,761	362,210	13.4%	6.3%
2026	51,684	13,972	8,368	22,340	1,500	23,840	373,076	13.9%	6.4%
2027	55,410	14,445	9,053	23,498	1,500	24,998	384,269	14.4%	6.5%
2028	59,715	14,903	9,716	24,619	1,500	26,119	395,797	15.1%	6.6%

¹² Assumes the City contributes \$1.5 million per year.





Actuarial Obligations by Cash/Implied Subsidy

3.95% Discount Rate June 30, 2017

(Amounts in 000's)

	Cash	Implied	
	Subsidy	Subsidy	Total
■ Present Value of Benefits			
 Actives 	\$179,928	\$110,664	\$290,592
• Retirees	<u>167,448</u>	81,478	<u>248,926</u>
• Total	347,376	192,142	539,518
■ Actuarial Accrued Liability			
• Actives	104,240	62,791	167,031
• Retirees	<u>167,448</u>	81,478	<u>248,926</u>
• Total	271,688	144,269	415,957
■ Actuarial Value of Assets ¹³	<u>(17,009)</u>	(9,032)	(26,041)
■ Unfunded AAL	254,679	135,237	389,916
■ Normal Cost 2018/19	7,488	4,346	11,834
■ Pay-As-You-Go 2018/19	10,860	4,483	15,343

¹³ Assets allocated in proportion to liability.





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Actuarially Determined Contribution (ADC) by Cash/Implied Subsidy 2018/19 Fiscal Year, 3.95% Discount Rate

RESULTS

(Amounts in 000's)

	Cash	Implied	
	Subsidy	Subsidy	Total
■ ADC - \$			
 Normal Cost 	\$ 7,488	\$ 4,346	\$ 11,834
 UAAL Amortization 	<u>14,712</u>	<u>7,908</u>	<u>22,620</u>
• Total	22,200	12,254	34,454
■ Projected Payroll	303,345	303,345	303,345
■ ADC - %			
 Normal Cost 	2.5%	1.4%	3.9%
 UAAL Amortization 	<u>4.9%</u>	<u>2.6%</u>	7.5%
• Total	7.4%	4.0%	11.4%





Actuarial Obligations by Group

3.95% Discount Rate (Amounts in 000's)

	Misc	Police	Fire	Total
■ Present Value of Benefits				
• Actives	\$ 92,880	\$ 53,147	\$ 144,565	\$ 290,592
• Retirees	93,747	47,275	<u>107,904</u>	<u>248,926</u>
• Total	186,627	100,422	252,469	539,518
■ Actuarial Accrued Liability				
• Actives	63,100	28,163	75,768	167,031
• Retirees	93,747	<u>47,275</u>	107,904	<u>248,926</u>
• Total	156,847	75,438	183,672	415,957
■ Actuarial Value of Assets ¹⁴	(9,354)	(4,499)	(12,188)	(26,041)
■ Unfunded AAL	147,493	70,939	171,484	389,916
■ Normal Cost 2018/19	3,454	2,220	6,160	11,834
■ Pay-As-You-Go 2018/19	7,388	2,724	5,231	15,343

¹⁴ Fire Assets allocated to Fire group, remaining assets allocated to Misc/Fire/Police in proportion to liability.





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RESULTS

Actuarially Determined Contribution (ADC) by Group 2018/19 Fiscal Year, 3.95% Discount Rate (Amounts in 000's)

	Misc	Police	Fire	Total
■ ADC - \$				
 Normal Cost 	\$ 3,454	\$ 2,220	\$ 6,160	\$ 11,834
 UAAL Amortization 	<u>8,434</u>	<u>4,129</u>	<u>10,057</u>	<u>22,620</u>
• Total	11,888	6,349	16,217	34,454
■ Projected Payroll	168,627	72,317	62,401	303,345
■ ADC - %				
 Normal Cost 	2.0%	3.1%	9.9%	3.9%
 UAAL Amortization 	<u>5.0%</u>	<u>5.7%</u>	<u>16.1%</u>	7.5%
• Total	7.0%	8.8%	26.0%	11.4%





Actuarially Determined Contribution (ADC) by Group

2019/20 Fiscal Year, 3.95% Discount Rate

(Amounts in 000's)

	Misc	Police	Fire	Total
■ ADC - \$				
 Normal Cost 	\$ 3,487	\$ 2,254	\$ 6,224	\$ 11,966
 UAAL Amortization 	<u>9,077</u>	<u>4,444</u>	10,823	<u>24,344</u>
• Total	12,564	6,698	17,047	36,310
■ Projected Payroll	173,686	74,487	64,273	312,446
■ ADC - %				
 Normal Cost 	2.0%	3.0%	9.7%	3.8%
 UAAL Amortization 	<u>5.2%</u>	<u>6.0%</u>	<u>16.8%</u>	7.8%
• Total	7.2%	9.0%	26.5%	11.6%





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Schedule of Funding Progress

RESULTS

(Amounts in 000's)

Actuarial Valuation Date ¹⁵	Actuarial Value of Assets (a)	Entry Age Actuarial Accrued Liability (b)	Unfunded Actuarial Accrued Liability (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as Percentage of Covered Payroll ((b-a)/c)
6/30/07	\$ -	\$ 380,373	\$ 380,373	0.0%	\$ 266,317	142.8%
6/30/09	-	376,417	376,417	0.0%	275,252	136.8%
6/30/11	-	439,592	439,592	0.0%	253,528	173.4%
6/30/12	-	447,406	447,406	0.0%	261,768	170.9%
6/30/13	-	433,695	433,695	0.0%	257,498	168.4%
6/30/15	5,461	362,824	357,363	1.5%	270,677	132.0%
6/30/17	26,041	415,957	389,916	6.3%	285,932	136.4%

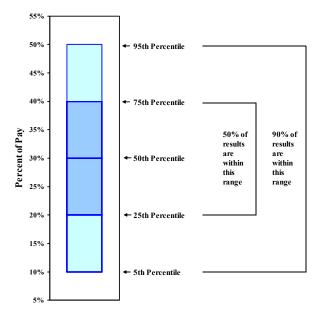
¹⁵ The valuations for 6/30/07 through the 6/30/11 are based on a 4.25% discount rate. The 6/30/13 & 6/30/15 valuations are based on a 4.50% discount rate. The 6/30/17 valuation is based on a 3.95% discount rate.





BARTEL ASSOCIATES OPEB DATABASE

Bartel Associates OPEB Database Sample Percentile Graph

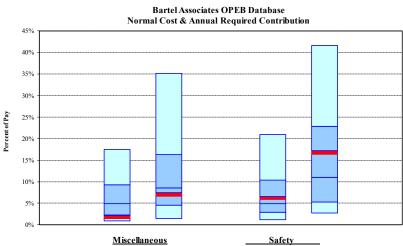






BARTEL ASSOCIATES OPEB DATABASE

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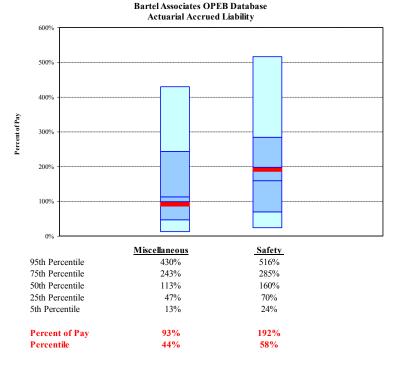
	Miscella	aneous	Safety	
	NC	ARC	NC	ARC
95th Percentile	17.5%	35.1%	20.9%	41.6%
75th Percentile	9.3%	16.3%	10.3%	22.8%
50th Percentile	4.9%	8.5%	4.9%	11.0%
25th Percentile	2.3%	4.6%	2.9%	5.3%
5th Percentile	0.9%	1.4%	1.2%	2.7%
			•	
Percent of Pay	2.0%	7.0%	6.2%	16.7%
Percentile	21%	42%	59%	63%

Discount Rate = 3.95%, Average Amortization Period = 20.0 Years





BARTEL ASSOCIATES OPEB DATABASE



Discount Rate = 3.95%

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ACTUARIAL CERTIFICATION

This report presents the City of Sacramento Retiree Healthcare Plan ("Plan") June 30, 2017 actuarial valuation. The purpose of this valuation is to:

- Determine the Plan's June 30, 2017 Funded Status and
- Calculate the 2018/19 and 2019/20 Actuarially Determined Contributions.

Information provided in this report may be useful to the City for the Plan's financial management. Future valuations may differ significantly if the Plan's experience differs from our assumptions or if there are changes in Plan design, actuarial methods, or actuarial assumptions. The project scope did not include an analysis of this potential variation.

The valuation is based on Plan provisions, participant data, and asset information provided by the City as summarized in this report, which we relied on and did not audit. We reviewed the participant data for reasonableness.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

May Uffet Reldin

Mary Beth Redding, FSA, EA, MAAA, FCA

Vice President

Bartel Associates, LLC

March 9, 2018

Catherine a. Wandro

Catherine A. Wandro, ASA, MAAA, FCA

Assistant Vice President

Bartel Associates, LLC

March 9, 2018





EXHIBITS

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Definitions	E-42





EXHIBITS

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2017 Monthly Medical Premiums Actives

Medical Plan	Single	2-Party	Family
Kaiser HMO - \$25 Co-Pay	\$ 715.56	\$ 1,431.12	\$ 1,903.40
Kaiser HMO - \$40 Co-Pay	705.52	1,411.04	1,876.70
Kaiser HMO - Account Based Health Plan	582.60	1,165.18	1,549.70
Western Health Advantage - \$25 Co-Pay	702.42	1,404.82	1,868.42
Western Health Advantage - \$40 Co-Pay	690.46	1,380.92	1,836.64
Western Health Advantage - Account Based Health Plan	539.08	1,078.14	1,433.92
Sutter Health Plus - \$25 Co-Pay	683.82	1,368.46	1,818.50
Sutter Health Plus - \$40 Co-Pay	658.54	1,318.06	1,752.66
Sutter Health Plus - Account Based Health Plan	559.10	1,118.02	1,486.00





E-1

PREMIUMS

2017 Monthly Medical Premiums Non Medicare Retirees

Medical Plan	Single	2-Party	Family
Kaiser HMO - \$25 Co-Pay	\$ 715.56	\$ 1,431.12	\$ 1,903.40
Kaiser HMO - \$40 Co-Pay	705.52	1,411.04	1,876.70
Western Health Advantage HMO - \$25 Co-Pay	702.42	1,404.82	1,868.42
Western Health Advantage HMO- \$40 Co-Pay	690.46	1,380.92	1,836.64
Sutter Health Plus HMO - \$25 Co-Pay	683.82	1,368.46	1,818.50
Sutter Health Plus HMO - \$40 Co-Pay	658.54	1,318.06	1,752.66





2017 Monthly Medical Premiums Medicare Retirees

Medical Plan	Single	2-Party	Family
Kaiser Senior Advantage - \$15 Co-Pay	\$ 322.40	\$ 612.70	\$ 966.74
Kaiser Senior Advantage - \$20 Co-Pay	312.10	593.12	935.82
Health Net Seniority Plus - \$15 Co-Pay	414.90	829.80	n/a
Health Net Seniority Plus - \$25 Co-Pay	404.84	809.68	n/a





PREMIUMS

E-3

2017 Monthly Dental & Vision Premiums

Actives

Dental Plan	Single	2-Party	Family
Delta Dental DPO	\$ 51.42	\$ 97.66	\$130.04
DeltaCare Dental PMI	27.86	52.92	70.44

Retirees

Dental Plan	Single	2-Party	Family
Delta Dental DPO	\$ 49.76	\$ 88.42	\$ 154.16
Delta Care DHMO	27.86	52.92	70.44

Actives and Retirees

Vision Plan	Single	2-Party	Family
VSP - Basic	\$ 7.96	\$ 11.40	\$ 20.42
VSP - Enhanced	10.78	15.44	27.64





2018 Monthly Medical Premiums Actives

Medical Plan	Single	2-Party	Family
Kaiser HMO – \$25 Co-Pay	\$ 729.46	\$1,458.92	\$1,940.30
Kaiser HMO – \$40 Co-Pay	719.24	1,438.48	1,913.10
Kaiser - Account Based Health Plan	593.90	1,187.80	1,579.78
Western Health Advantage – \$25 Co-Pay	734.74	1,469.44	1,954.38
Western Health Advantage – \$40 Co-Pay	722.22	1,444.44	1,921.12
Western Health Advantage - Account Based Health Plan	563.88	1,127.74	1,499.88
Sutter Health Plus – \$25 Co-Pay	719.42	1,438.78	1,914.74
Sutter Health Plus – \$40 Co-Pay	693.06	1,386.10	1,844.66
Sutter Health Plus - Account Based Health Plan	589.00	1,177.86	1,566.76





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PREMIUMS

2018 Monthly Medical Premiums Non Medicare Retirees

Medical Plan	Single	2-Party	Family
Kaiser HMO – \$25 Co-Pay	\$ 729.46	\$1,458.92	\$1,940.30
Kaiser HMO – \$40 Co-Pay	719.24	1,438.48	1,913.10
Western Health Advantage – \$25 Co-Pay	734.74	1,469.44	1,954.38
Western Health Advantage – \$40 Co-Pay	722.22	1,444.44	1,921.12
Sutter Health Plus – \$25 Co-Pay	719.42	1,438.78	1,914.74
Sutter Health Plus – \$40 Co-Pay	693.06	1,386.10	1,844.66





2018 Monthly Medical Premiums Medicare Retirees

Medical Plan	Single	2-Party	Family
Kaiser Senior Advantage – \$20 Co-Pay	\$ 323.68	\$ 615.14	\$ 970.54
Health Net Seniority Plus – \$15 Co-Pay	435.21	870.42	n/a





PREMIUMS

E-7

2018 Monthly Dental & Vision Premiums

Actives

Dental Plan	Single	2-Party	Family
Delta Dental DPO	\$ 52.32	\$ 99.38	\$ 132.34
DeltaCare USA (DMO)	27.86	52.92	70.44

Retirees

Dental Plan	Single	2-Party	Family
Delta Dental DPO	\$ 52.32	\$ 99.38	\$ 132.34
Delta Care USA (DMO)	27.86	52.92	70.44

Actives and Retirees

Vision Plan	Single	2-Party	Family
VSP - Basic	\$ 7.96	\$ 11.40	\$ 20.42
VSP - Enhanced	10.78	15.44	27.64





Medical Plan Participation Non-Waived Participants June 30, 2017

		Retirees	
Plan	Actives	< 65	≥65
Kaiser HMO - \$25 Co-Pay (\$15 Co-Pay Post 65)	45%	49%	50%
Kaiser HMO - \$40 Co-Pay (\$20 Co-Pay Post 65)	5%	9%	19%
Kaiser HMO - ABHP	9%	0%	0%
Western Health Advantage - \$25 Co-Pay	12%	18%	1%
Western Health Advantage - \$40 Co-Pay	2%	4%	0%
Western Health Advantage - ABHP	5%	0%	0%
Sutter Health Plus - \$25 Co-Pay	14%	11%	1%
Sutter Health Plus - \$40 Co-Pay	6%	6%	1%
Sutter Health Plus - ABHP	2%	0%	0%
Health Net Seniority Plus - \$15 Co-Pay	0%	2%	21%
Health Net Seniority Plus - \$25 Co-Pay	0%	1%	7%
Total	100%	100%	100%





E-9

DATA SUMMARY

Current Active Medical Coverage June 30, 2017

Medical Plan	Single	2-Party	Family	Waived	Total
Kaiser HMO - \$25 Co-Pay	752	183	449	-	1,384
Kaiser HMO - \$40 Co-Pay	73	19	52	-	144
Kaiser HMO - ABHP	123	29	131	-	283
Western Health Adv \$25 Co-Pay	188	50	125	-	363
Western Health Adv \$40 Co-Pay	19	12	17	-	48
Western Health Adv ABHP	80	13	52	-	145
Sutter Health Plus - \$25 Co-Pay	201	53	170	-	424
Sutter Health Plus - \$40 Co-Pay	79	35	67	-	181
Sutter Health Plus - ABHP	38	7	31	-	76
Waived	-	_	_	668	668
Total	1,553	401	1,094	668	3,716





<u>Current Retiree Medical Coverage – Pre 65</u>

Medical Plan	Single	2-Party	Family	Waived	Total
Kaiser HMO - \$25 Co-Pay	167	40	12	-	219
Kaiser HMO - \$40 Co-Pay	17	10	5	-	32
Kaiser Oregon HMO	2	-	-	-	2
Kaiser Senior Advantage - \$15 Co-Pay	18	4	1	-	23
Kaiser Senior Advantage - \$20 Co-Pay	7	8	-	-	15
Health Net Seniority Plus - \$15 Co-Pay	12	-	-	-	12
Health Net Seniority Plus - \$25 Co-Pay	5	1	-	-	6
Western Health Adv. HMO- \$25 Co-Pay	69	20	4	-	93
Western Health Adv. HMO - \$40 Co-Pay	10	5	3	-	18
Sutter Health Plus HMO - \$25 Co-Pay	43	12	2	-	57
Sutter Health Plus HMO - \$40 Co-Pay	17	6	5	-	28
In Lieu Reimbursement	-	-	-	42	42
Waived	_	-	-	460	460
Total	367	106	32	502	1,007





E-11

DATA SUMMARY

<u>Current Retiree Medical Coverage – Post 65</u>

Medical Plan	Single	2-Party	Family	Waived	Total
Kaiser HMO - \$25 Co-Pay	53	6	-	-	59
Kaiser HMO - \$40 Co-Pay	2	2	-	-	4
Kaiser Colorado HMO	3	1	-	-	4
Kaiser Hawaii HMO	1	1	-	-	2
Kaiser Oregon HMO	7	1	-	-	8
Kaiser Senior Advantage - \$15 Co-Pay	360	228	6	-	594
Kaiser Senior Advantage - \$20 Co-Pay	149	104	1	-	254
Health Net Seniority Plus - \$15 Co-Pay	205	77	2	-	284
Health Net Seniority Plus - \$25 Co-Pay	59	37	-	-	96
Western Health Adv. HMO - \$25 Co-Pay	10	2	1	-	13
Western Health Adv. HMO- \$40 Co-Pay	2	-	-	-	2
Sutter Health Plus HMO - \$25 Co-Pay	12	3	-	-	15
Sutter Health Plus HMO - \$40 Co-Pay	4	3	-	-	7
In Lieu Reimbursement	-	-	-	147	147
Waived	-	_	-	740	740
Total	867	465	10	887	2,229





Dental Coverage June 30, 2017

Actives

Dental Plan	Single	2-Party	Family	Waived	Total
Delta Dental DPPO	1,086	503	1,083	-	2,672
Delta Care DHMO	191	72	151	_	414
Waived	I	-	-	630	630
Total	1,277	575	1,234	630	3,716

Retirees

Dental Plan	Single	2-Party	Family	Waived	Total
Delta Dental DPPO	1,142	1,095	208	-	2,445
Delta Care DHMO	75	46	7	-	128
Waived	_	-	_	663	663
Total	1,217	1,141	215	663	3,236





E-13

DATA SUMMARY

Vision Coverage

June 30, 2017

Actives

Vision Plan	Single	2-Party	Family	Waived	Total
VSP - Basic	698	371	538	-	1,607
VSP - Enhanced	262	166	184	-	612
Waived	_	-	-	1,497	1,497
Total	960	537	722	1,497	3,716

Retirees

Vision Plan	Single	2-Party	Family	Waived	Total
VSP - Basic	313	327	83	-	723
VSP - Enhanced	133	220	69	1	422
Waived	1	_	-	2,091	2,091
Total	446	547	152	2,091	3,236





Retiree Medical and Dental Participation

Valuation Date	Medical Only	Dental Only	Both Medical & Dental	Neither Medical nor Dental	Total
6/30/2009	188	549	1,686	350	2,773
6/30/2011	309	592	1,478	431	2,810
6/30/2013	220	785	1,645	417	3,067
6/30/2015	214	863	1,601	446	3,124
6/30/2017	196	922	1,651	467	3,236





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DATA SUMMARY

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Retiree Medical Plan Coverage by Age June 30, 2017 Miscellaneous

Age	Single	2-Party	Family	Waived	Total
Under 50	1	1	-	8	10
50-54	9	-	3	20	32
55-59	52	19	1	105	177
60-64	151	32	5	179	367
65-69	156	87	4	203	450
70-74	144	62	-	178	384
75-80	100	56	1	114	271
80-85	79	33	2	71	185
85 & Over	109	26	-	82	217
Total	801	316	16	960	2,093
Average Age	72.5	72.2	64.7	70.1	71.3

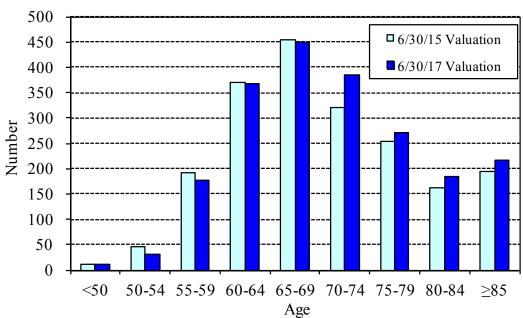


SACRAMENTO

E-17

DATA SUMMARY

Retiree Age Distribution Miscellaneous







Retiree Medical Plan Coverage by Age June 30, 2017 Police

Age	Single	2-Party	Family	Waived	Total
Under 50	5	-	ı	22	27
50-54	16	5	4	46	71
55-59	24	9	1	50	84
60-64	19	15	ı	42	76
65-69	39	16	1	34	90
70-74	35	26	ı	64	125
75-80	25	27	ı	28	80
80-85	18	9	ı	15	42
85 & Over	15	5	ı	7	27
Total	196	112	6	308	622
Average Age	69.1	71.0	56.6	64.3	66.9

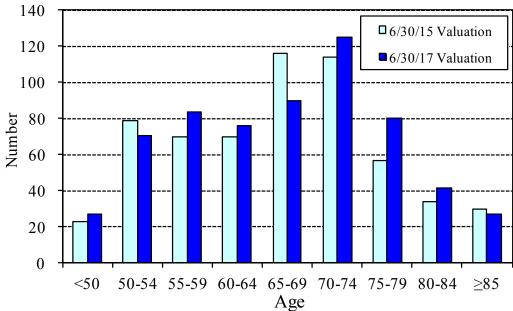




E-19

DATA SUMMARY

Retiree Age Distribution Police







Retiree Medical Plan Coverage by Age June 30, 2017 Fire

Age	Single	2-Party	Family	Waived	Total
Under 50	7	-	-	5	12
50-54	13	2	9	2	26
55-59	30	7	5	9	51
60-64	40	16	4	14	74
65-69	35	27	2	18	82
70-74	38	35	•	20	93
75-80	22	28	-	23	73
80-85	17	14	•	13	44
85 & Over	35	14	-	17	66
Total	237	143	20	121	521
Average Age	71.5	72.1	60.4	69.0	70.4

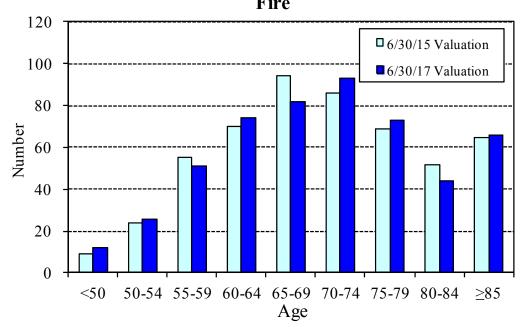




E-21

DATA SUMMARY

Retiree Age Distribution Fire







Actives by Age and Service June 30, 2017 Miscellaneous

		City Service						
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total
< 25	17	28	2	-	-	-	-	47
25-29	63	98	9	3	-	-	-	173
30-34	54	127	28	37	9	-	-	255
35-39	44	119	32	67	27	3	-	292
40-44	31	85	37	87	46	15	2	303
45-49	23	82	28	95	73	34	31	366
50-54	20	53	27	76	74	40	90	380
55-59	11	31	22	55	66	29	106	320
60-64	3	17	13	46	38	18	58	193
≥ 65	1	10	4	14	12	5	18	64
Total	267	650	202	480	345	144	305	2,393

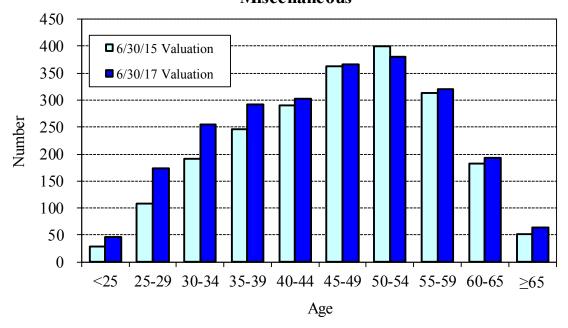


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E-23

DATA SUMMARY

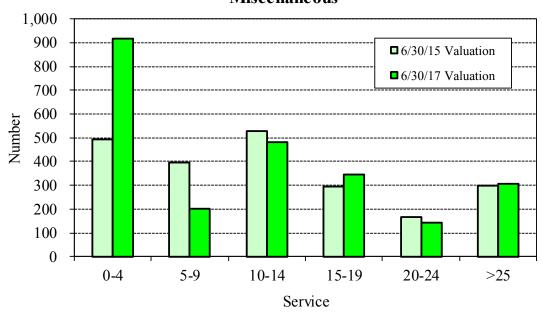
Active Age Distribution Miscellaneous







Active Service Distribution Miscellaneous







E-25

DATA SUMMARY

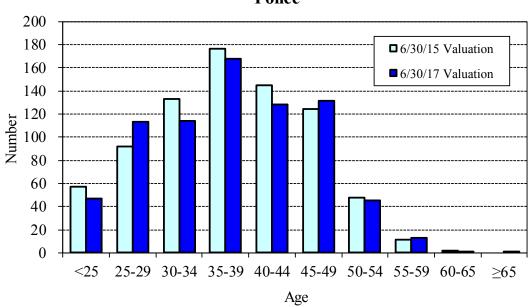
Actives by Age and Service June 30, 2017 Police

	City Service							
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total
< 25	15	32	-	-	-	-	-	47
25-29	32	79	2	-	-	-	-	113
30-34	6	48	20	38	2	-	-	114
35-39	_	15	13	103	33	4	-	168
40-44	-	4	1	49	53	19	2	128
45-49	_	-	2	24	44	40	21	131
50-54	-	-	1	4	7	7	26	45
55-59	-	-	ı	1	_	2	10	13
60-64	_	-	ı	-	_	_	1	1
≥ 65	-	-	-	-	-	1	-	1
Total	53	178	39	219	139	73	60	761





Active Age Distribution Police



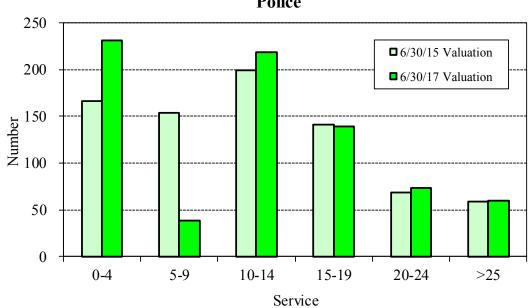




E-27

DATA SUMMARY

Active Service Distribution Police







Actives by Age and Service June 30, 2017 Fire

	City Service								
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total	
< 25	-	3	-	-	_	-	_	3	
25-29	5	44	4	-	_	-	-	53	
30-34	3	43	7	8	-	-	-	61	
35-39	3	19	12	76	9	1	-	120	
40-44	1	4	4	36	48	9	-	102	
45-49	1	1	4	28	46	45	4	129	
50-54	-	1	1	5	12	28	18	65	
55-59	-	1	-	2	3	4	13	23	
60-64	-	ı	-	1	1	1	3	6	
≥ 65	-	•	-	-	-	•	-	-	
Total	13	116	32	156	119	88	38	562	

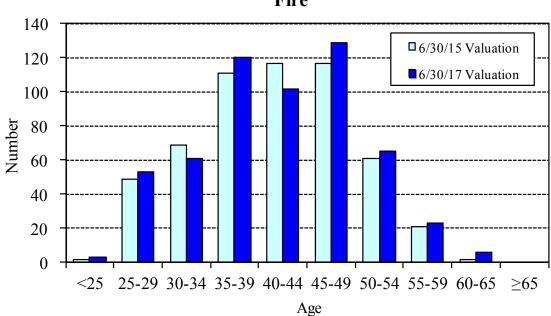


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E-29

DATA SUMMARY

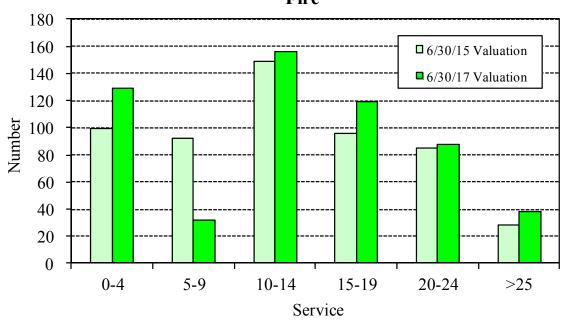
Active Age Distribution Fire







Active Service Distribution Fire





SACRAMENTO

ACTUARIAL ASSUMPTIONS

E-31

	June 30, 2015 Valuation	June 30, 2017 Valuation
■ Valuation Date	June 30, 2015Fiscal Years 2016/17 & 2017/18	June 30, 2017Fiscal Years 2018/19 & 2019/20
■ Discount Rate	 4.50% – Pre-fund one time resources CERBT asset allocation strategy #1 	 3.95% Based on closed group crossover analysis following GASBS 75 methodology: Projected City contributions of \$1.5 million per year 6.75% rate for full ADC prefunding and S&P 20-year bond index rate (3.13% as of 6/30/17) for pay-go prefunding CERBT asset allocation strategy #1 (57% global equity, 27% fixed income, 5% TIPS, 8% REITs, 3% commodities)





ACTUARIAL ASSUMPTIONS

	June 30, 2015 Valuation	June 30, 2017 Valuation
■ General Inflation	■ 3.00%	2 .75%
Aggregate Payroll Increases	3.25%	■ 3.00%
■ Mortality, Termination, Disability	 CalPERS – 1997-2011 Experience Study SCERS – 6/30/13 Valuation Assumptions Mortality projected fully generational with Scale MP-14, modified to converge to ultimate improvement rates in year 2022 	 CalPERS – 1997-2011 Experience Study SCERS – 6/30/17 Valuation Assumptions (limited applicability) Mortality projected fully generational with Scale MP-16





E-33

ACTUARIAL ASSUMPTIONS

	June 30, 2	015 Valuati	June 30, 2	017 Valuati	ion	
Service Retirement	■ CalPERS 1997-2011 Experience Study			CalPERS 19 Experience S		
		Level	ERA		Level	ERA
	Fire	3%@55	57	Fire	3%@55	56
	Police	3%@50	54	Police	3%@50	53
	Misc	2%@55	59	Misc	2%@55	59
	Fire PEPRA	2.7%@57	58	Fire PEPRA	2.7%@57	58
	Police PEPRA	2.7%@57	56	Police PEPRA	2.7%@57	56
	Misc PEPRA	2%@62	61	Misc PEPRA	2%@62	61
	■ SCERS – 6/3 Assumptions		tion	■ SCERS – 6/2 Assumptions		tion
■ CalPERS Service	City service plus ½ service between age 30 and City hire date			■ Same		





	June 30, 2015 Valuation	June 30, 2017 Valuation
■ Medical Trend	Year Non-Medicare Medicare 2015 Actual 2015 Premiums 2016 Actual 2016 Premiums 2017 7.0% 7.2% 2018 6.5% 6.7% 2019 6.0% 6.1% 2020 5.5% 5.6% 2021+ 5.0% 5.0%	Year Non-Medicare Medicare 2017 Actual 2017 Premiums 2018 Actual 2018 Premiums 2019 7.50% 6.50% 2020 7.50% 6.50% 2021 7.25% 6.30% 2022 7.00% 6.10% 2023 6.75% 5.90% 2024 6.50% 5.70% 2025 6.25% 5.50% 2026 6.00% 5.30% 2027 5.80% 5.15% 2028 5.60% 5.00% 2029 5.40% 4.85% 2030 5.20% 4.70% 2031-35 5.05% 4.60% 2036-45 4.90% 4.50% 2046-55 4.75% 4.45% 2056-65 4.60% 4.40% 2066-75 4.30% 4.20% 2076+ 4.00% 4.00%





E-35

ACTUARIAL ASSUMPTIONS

	June 30, 2015 Valuation	June 30, 2017 Valuation
■ Dental & Vision Trend	■ 3.00%	2 .75%
■ Cap Increase Rates	 Fire hired <1/14/15: Lowest cost \$25 co-pay medical premium – medical trend Lowest cost PPO dental premium – dental trend All Misc, All Police, and Fire hired ≥ 1/14/15: 3% starting 2017 	 ■ Fire hired <1/14/15: Lowest cost \$25 co-pay medical premium – medical trend Lowest cost PPO dental premium – dental trend ■ All Misc, All Police, and Fire hired ≥ 1/14/15: 0%
■ Affordable Care Act (ACA) Excise Tax	■ n/a	■ 2% liability load on cash subsidy to estimate impact





	June 30, 2015 Valuation			June	30, 20)17 V	aluati	on
Participation at Retirement	■ Based on current retiree participation, varies by % of cash benefit earned at retirement:			Based of fiscal years of the first of the fi	ears 2 f cash	015 to	2017	, varies
		% of Benefit	Participation		% (fit Earn	
		Earned	Assumption	Plan	0%	50%	75%	100%
		0%	10%	M&D&V	10%	23%	30%	35%
		50%	40%	D & V	10%	40%	35%	30%
		75%	55%	M & D	0%	10%	14%	20%
		100%	75%	M & V	0%	3%	0%	4%
		10070	7570	M Only	10%	12%	9.5%	7%
				D Only	10%	3%	1.5%	0.5%
				V Only	0%	0%	1%	0.5%
				M = Medi	cal, D=	= Denta	1, V = V	/ision
■ Pre 1/1/91		CERS:		Same				
Inactive Vested Ret. Age		Sect 399 – Ag Sect 175 – Ag						





E-37

ACTUARIAL ASSUMPTIONS

	June 30, 2015 Valuation				June 30, 2	2017 Y	Valuati	on
■ Estimated			FY 2015	/16			FY 2017	/18
Monthly	Medical Plan	Age	M	F	Medical Plan	Age	M	F
Age-Based	Kaiser HMO	50	\$610	\$794	Kaiser HMO	50	\$676	\$738
Claims Cost		55	789	809		55	876	883
per Retiree		60	1,002	863		60	1,120	1,053
per retiree	Sutter Health	50	642	835	Sutter Health	50	695	758
		55	830	851		55	901	907
		60	1,055	909		60	1,152	1,082
	Western Health	50	616	801	Western Health	50	652	711
		55	796	816		55	844	850
		60	1,011	871		60	1,079	1,014
					■ Includes up claims cost		_	ated



	June 30, 2015 Valuation	June 30, 2017 Valuation
■ Medical Plan at Retirement	 Currently covered – Same as active elections: Pre-Medicare – same as current active elections with Account Based Plans => Standard Plans Post-Medicare: Kaiser => Kaiser SA Sutter Health and Western Health => HN Seniority+ Currently waived – Kaiser HMO Premium Plan 	■ Same
■ Waived Retiree Re- Election	 Retirees < 65 - 30% re-elect at age 65 Retirees ≥ 65 - 0% re-elect 	■ Same





E-39

ACTUARIAL ASSUMPTIONS

	June 30, 2015 Valuation	June 30, 2017 Valuation
■ Medicare Eligible Rate	 Hired before 4/1/86: Misc – 90% Safety – 80% Hired on or after 4/1/86: 100% Retirees under age 65: Misc – 95% Safety – 90% 	■ Same
■ Marital Status at Retirement	 Actives: Currently covered – current marital status Not currently covered – 85% married Retirees – current marital status 	■ Same





	June 30, 2015 Valuation	June 30, 2017 Valuation
■ Spouse Age	 Actives – Males 3 years older than females Retirees – Males 3 years older than females if spouse birth date not available 	■ Same
Surviving Spouse Participation	■ 100%	■ Same
■ Dependents at Retirement	 Pre-65: Actives Misc − 10% Safety − 20% Retirees − same as current coverage Post-65 − 0% 	■ Same





E-41

DEFINITIONS

■ OPEB Actuarial	■ Project future employer-provided benefit cash flows for current active employees and current retirees
Valuation	 Discount projected cash flow to valuation date using discount rate (assumed return on assets used to pay benefits) and other actuarial assumptions to determine present value of projected future benefits (PVB) Allocate PVB to past, current, and future periods using the actuarial cost method
	■ Actuarial cost method used for this valuation is the Entry Age Normal Cost method which determines Normal Cost as a level percentage of payroll (same method used by CalPERS)
	 Normal Cost is amount allocated to current fiscal year Actuarial Accrued Liability (AAL) is amount allocated to prior service with employer
	 Unfunded AAL (UAAL) is AAL less plan assets pre-funded in a segregated and restricted trust
■ PayGo Cost	 Cash subsidy is the pay-as-you-go employer benefit payments for retirees Implied subsidy is the difference between the actual cost of retiree benefits and retiree premiums subsidized by active employee premiums

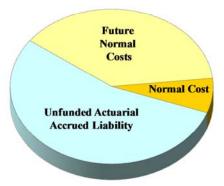




DEFINITIONS

Present Value of Benefits

Present Value of Benefits (Without Plan Assets)



Present Value of Benefits (With Plan Assets)







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DEFINITIONS

- Terminology Used in Report
- AAL Actuarial Accrued Liability
- AOC Annual OPEB Cost
- ADC Actuarially Determined Contribution
- ARC Annual Required Contribution
- AVA Actuarial Value of Assets
- EAN Entry Age Normal Cost Method
- GASBS 45 Governmental Accounting Standards Board Statement No. 45
- GASBS 75 Governmental Accounting Standards Board Statement No. 75
- MVA Market Value of Assets
- NC Normal cost
- NOO Net OPEB Obligation
- OPEB Other (than pensions) Post Employment Benefits
- PVB Present Value of Projected Benefits
- UAAL Unfunded Actuarial Accrued Liability





Exhibit I



BARTEL ISSOCIATES LIC

City of Sacramento Retiree Healthcare Plan

June 30, 2019 GASBS 75 Accounting Information

As of Measurement Date June 30, 2018 Based on the June 30, 2017 Actuarial Valuation

Mary Elizabeth Redding, Vice President Catherine A. Wandro, Assistant Vice President Daniel Park, Actuarial Analyst Bartel Associates, LLC

October 3, 2019

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Applicable Dates

Applicable Dates and Periods

	Fiscal Year Ending June 30, 2019
■ Measurement date	June 30, 2018
■ Measurement period	July 1, 2017 to June 30, 2018
■ Actuarial valuation date	June 30, 2017

Update procedures were used to roll forward the Total OPEB Liability from the valuation date (June 30, 2017) to the measurement date (June 30, 2018).



1 City of Sacramento

Note Disclosures

Plan Information

	Fiscal Year Ending June 30, 2019
■ Plan type	Agent Multiple Employer
■ OPEB trust	Yes
■ Special funding situation	No
■ Nonemployer contributing entities	No

Expected Long-Term Rate of Return

	Target Allocation*	Expected Real
	CERBT-Strategy 1	Rate of Return
■ Asset Class Component		
 Global Equity 	57%	4.82%
 Fixed Income 	27%	1.47%
• TIPS	5%	1.29%
 Commodities 	3%	0.84%
• REITs	8%	3.76%
■ Assumed Long-Term Rate of Inflation		2.75%
■ Expected Long-Term Net l	6.75%	

The long-term expected real rates of return are presented as geometric means.

* Policy target effective on the measurement date (June 30, 2018). Changes to the target investment allocation effective October 1, 2018 do not have a significant impact on the expected long-term rate of return.



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Note Disclosures

Covered Participants*

At June 30, 2018, the measurement date, the following numbers of participants were covered by the benefit terms:

	Number of
	Covered
	Participants
■ Inactives currently receiving benefits	2,680
■ Inactives entitled to but not yet receiving benefits	400
■ Active employees	3,527
■ Total	6,607

^{*} As reported by the City.

Net OPEB Liability/(Asset)

(Amounts in 000's)

	Fiscal Year Ending			
		6/30/18		6/30/19
		Measurement Date 6/30/17		Measurement Date 6/30/18
■ Total OPEB Liability (TOL)	\$	415,957	\$	399,873
■ Fiduciary Net Position (FNP)		26,445		37,027
■ Net OPEB Liability (NOL)		389,512		362,846
■ Funded status (FNP/TOL)		6.4%		9.3%



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Note Disclosures

Changes in Net OPEB Liability/(Asset)

	tal OPEB	iciary Net Position	et OPEB Liability
■ Balance at 6/30/18 (6/30/17 measurement date)	\$ 415,957	\$ 26,445	\$ 389,512
■ Changes for the year			
Service Cost	11,052	-	11,052
• Interest	16,612	-	16,612
 Changes of benefit terms 	-	-	-
 Actual vs. expected experience 	-	-	-
 Assumption changes 	(30,845)	-	(30,845)
 Contributions - employer* 	-	21,072	(21,072)
 Contributions - employee 	-	308	(308)
 Net investment income 	-	2,156	(2,156)
Benefit payments*	(12,903)	(12,903)	-
Administrative expenses	-	(51)	51
■ Net Changes	(16,084)	10,582	(26,666)
■ Balance at 6/30/19 (6/30/18 measurement date)	\$ 399,873	\$ 37,027	\$ 362,846

^{*} See the measurement period column on page 20 for details.



Sensitivity of Net OPEB Liability/(Asset)

(Amounts in 000's)

■ Changes in the Discount Rate

	Discount Rate				
	1% Decrease (3.50%)	Current Rate (4.50%)	1% Increase (5.50%)		
■ Net OPEB Liability	\$ 421,800	\$ 362,846	\$ 314,937		

■ Changes in the Healthcare Trend Rate

	Healthcare Trend Rate				
	1% Decrease	Current Trend	1% Increase		
■ Net OPEB Liability	\$ 306,508	\$ 362,846	\$ 433,790		

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Note Disclosures

OPEB Expense for Fiscal Year

(Amounts in 000's)

	201	18/19
	Measurement Period 2017/18	
■ OPEB Expense*	\$ 16,264	

^{*} See page 26 for OPEB expense detail, which is not required disclosure.



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Deferred Outflows/Inflows Balances at June 30, 2019

(Amounts in 000's)

	June 30, 2019		
	Deferred Outflows of Resources	Deferred Inflows of Resources	
■ Differences between expected and actual experience	\$ -	\$ -	
■ Changes in assumptions	-	42,207	
■ Net difference between projected and actual earnings on plan investments	-	636	
■ Employer contributions made subsequent to the measurement date*	18,406	-	
■ Total	18,406	42,843	

^{*} See page 20 for details.



City of Sacramento

Note Disclosures

Recognition of Deferred Outflows and Inflows of Resources in Future OPEB Expense

FYE June 30	Outfl	Deferred ows/(Inflows) Resources
■ 2020	\$	(9,256)
2 021		(9,256)
■ 2022		(9,257)
■ 2023		(9,115)
■ 2024		(5,456)
■ Thereafter		(503)

Significant Actuarial Assumptions Used for Total OPEB Liability

Actuarial Assumption	June 30, 2018 Measurement Date	
■ Actuarial Valuation Date	■ June 30, 2017	
■ Municipal Bond Rate	■ 2.98% as of June 30, 2018	
	■ 3.13% as of June 30, 2017	
	■ Standard & Poors 20 Year High Grade Rate	
■ Discount Rate and	■ 4.50% Discount Rate at June 30, 2018	
Long-Term Expected	■ 3.95% Discount Rate at June 30, 2017	
Rate of Return on Assets	■ 6.75% Long-Term Expected Rate of Return on	
	Investments, net of investment expenses	
■ General Inflation	■ 2.75% annually	
■ Crossover Test	■ Assumed \$1.5 million annual contribution after	
Assumptions	2018/19	
	■ Administrative expenses = .05% of pay	
	■ The crossover date is 6/30/2044	
	■ Single equivalent discount rate at 6/30/18 of 4.5%	
■ Mortality, Retirement,	■ CalPERS 1997-2011 Experience Study	
Disability, Termination	■ SCERS 6/30/17 Valuation Assumptions (limited	
	applicability)	



City of Sacramento

Note Disclosures

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Significant Actuarial Assumptions Used for Total OPEB Liability

Actuarial Assumption	June 30, 2018 Measurement Date
■ Mortality Improvement	■ Mortality projected fully generational with Society of Actuaries mortality improvement Scale MP-2016
■ Salary Increases	Aggregate - 3% annuallyMerit - CalPERS 1997-2011 Experience Study
■ Medical Trend	 Non-Medicare - 7.5% for 2019, decreasing to an ultimate rate of 4.0% in 2076 Medicare - 6.5% for 2019, decreasing to an ultimate rate of 4.0% in 2076
■ Healthcare Participation for Future Retirees	 Medical, dental, and/or vision coverage - varies from 0% to 40% based on percent of benefit earned at retirement Assumptions based on study of recent retiree
	experience

Changes Since June 30, 2017 Measurement Date

	June 30, 2018 Measurement Date
■ Changes of assumptions	■ Discount rate was changed based on an updated crossover test and the June 30, 2018 Municipal Bond Rate
■ Changes of benefit terms	■ None



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Required Supplementary Information

Schedule of Changes in Net OPEB Liability/(Assets) and Related Ratios

	2	018/19
	Measurement Period 2017/18	
■ Changes in Total OPEB Liability		
Service Cost	\$	11,052
• Interest		16,612
 Changes of benefit terms 		-
 Actual vs. expected experience 		-
Assumption changes		(30,845)
Benefit payments		(12,903)
■ Net Changes		(16,084)
■ Total OPEB Liability (beginning of year)		415,957
■ Total OPEB Liability (end of year)		399,873

Required Supplementary Information

Schedule of Changes in Net OPEB Liability/(Assets) and Related Ratios

(Amounts in 000's)

	2	2018/19	
	Measurement Perio 2017/18		
■ Changes in Plan Fiduciary Net Position			
Contributions - employer	\$	21,072	
Contributions - employee		308	
Net investment income		2,156	
Benefit payments		(12,903)	
Administrative expenses		(51)	
• Other changes			
• Net Changes		10,582	
■ Plan Fiduciary Net Position (beginning of year)		26,445	
■ Plan Fiduciary Net Position (end of year)		37,027	

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Required Supplementary Information

Schedule of Changes in Net OPEB Liability/(Assets) and Related Ratios

(Amounts in 000's)

	2018/19
■ Net OPEB Liability/(Asset)	\$ 362,846
■ Fiduciary Net Position as a percentage of the Total OPEB Liability	9.3%
■ Covered employee payroll*	236,885
■ Net OPEB Liability as a percentage of covered employee payroll	153.2%

* For the 12-month period ending on June 30, 2018 (Measurement Date). As reported by the City.

Required Supplementary Information

Schedule of Employer Contributions

(Amounts in 000's)

	scal Year 2018/19
■ Actuarially Determined Contribution (ADC)*	\$ 34,151
■ Contributions in relation to the actuarially determined contribution**	 18,406
■ Contribution deficiency/(excess)	15,745
■ Covered employee payroll***	245,622
■ Contributions as a percentage of covered employee payroll	7.5%

^{*} Employer ADC equals total ADC of \$34,454 less \$303 employee contributions.



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Required Supplementary Information

Notes to Schedule of Employer Contribution Methods and Assumptions for 2018/19 Actuarially Determined Contribution

■ Valuation Date	■ June 30, 2017
■ Actuarial Cost Method	■ Entry Age Normal, Level % of pay
■ Amortization Method	■ Level % of pay
■ Amortization Period	■ 20-year fixed period for 2018/19
■ Asset Valuation Method	■ Investment gains and losses spread over 5-year rolling period
■ Discount Rate	3 .95%
■ General Inflation	2.75%
■ Medical Trend	 Non-Medicare - 7.5% for 2019, decreasing to an ultimate rate of 4.0% in 2076 Medicare - 6.5% for 2019, decreasing to an ultimate rate of 4.0% in 2076
■ Mortality	■ CalPERS 1997-2011 experience study
■ Mortality Improvement	■ Mortality projected fully generational with Society of Actuaries mortality improvement Scale MP-2016

^{**} See page 20 for details.

^{***} For the 12-month period ending on June 30, 2019 (fiscal year end). As reported by the City.

Actuarial Certification

This report presents City of Sacramento Retiree Healthcare Plan 2018/19 disclosure under Governmental Accounting Standards Board Statement No. 75 (GASBS 75). The Journal Entries in this report are provided for the City's convenience and are not an actuarial communication and this actuarial certification does not apply to them.

The report provides information intended for reporting under GASBS 75, but may not be appropriate for other purposes. Information provided in this report may be useful to the City for the Plan's financial management. The total OPEB liability has been calculated from the June 30, 2017 actuarial valuation. Future valuations may differ significantly if the Plan's experience differs from our assumptions or if there are changes in Plan design, actuarial methods, or actuarial assumptions. The project scope did not include an analysis of this potential variation.

The June 30, 2017 valuation is based on Plan provisions and participant data provided by the City, and asset information, all of which we relied on and did not audit. We reviewed the census data for reasonableness. Additional information on participants included in the valuation and actuarial assumptions can be found in the June 30, 2017 funding actuarial valuation report. As the actuary, Bartel Associates has recommended the assumptions used in this report, and we believe they are reasonable.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. Additionally, in our opinion, actuarial methods and assumptions comply with GASBS 75. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

Many Oblete Redding

Mary Elizabeth Redding, FSA, EA, FCA, MAAA

Vice President Bartel Associates, LLC October 3, 2019 Catherine a. Wandro

Catherine A. Wandro, ASA, FCA, MAAA Assistant Vice President Bartel Associates, LLC

(B4) October 3, 2019

City of Sacramento

Supporting Calculations

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October 3, 2019

Employer Contributions

(Amounts in 000's)

	Measurement Period	Measurement Date to FYE	Prior Measurement Date to Prior FYE	
	7/1/17 to 6/30/18	7/1/18 to 6/30/19	Same as Measurement Period	
■ Cash benefit payments	\$ 10,123	\$ 10,407	\$ 10,123	
■ Implied subsidy benefit payments	2,780	4,483	2,780	
■ Total benefit payments	12,903	14,890	12,903	
■ Trust reimbursements				
■ Benefit payments paid outside of trust	12,903	14,890	12,903	
■ Administrative expenses paid outside of trust	-	-	-	
■ Trust contributions	8,169	3,516	8,169	
■ Total employer contributions	21,072	18,406	21,072	

Measurement period (7/1/17 to 6/30/18): \$21,072

Fiscal year (7/1/18 to 6/30/19): \$18,406



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Average of the Expected Remaining Service Lives

As of July 1, 2017 (beginning of the measurement period):

	2018/19
	Measurement Period 2017/18
■ Total expected remaining service lives*	40,103 years
■ Covered participants*	6,605
■ Average of the expected remaining service lives	6.1 years
(not less than 1 year)	

^{*} Participants with no liability excluded for the purpose of calculating the average.



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Supporting Calculations

Recognition of Deferred Outflows/Inflows at June 30, 2019

Differences between Expected and Actual Experience

Fiscal		Initial		Amount Recognized in OPEB Expense for FY							Deferred Balances June 30, 2019	
Year	Initial Amt	Recog Period	18/19	19/20	20/21	21/22	22/23	23/24	24/25+	Outflows	(Inflows)	
17/18	-	-	-	-	-	-	-	-	-	-	-	
18/19	-	-	-	-	-	-	-	-	-	-	-	
Total			-	_	-	-	_	-	-	-	-	

Recognition of Deferred Outflows/Inflows at June 30, 2019

Changes of Assumptions

(Amounts in 000's)

Fiscal		Initial	Amount Recognized in OPEB Expense for FY							Deferred Balances June 30, 2019	
Year	Initial Amt	Recog Period	18/19	19/20	20/21	21/22	22/23	23/24	24/25+	Outflows	(Inflows)
17/18	(24,429)	6.1	(4,005)	(4,005)	(4,005)	(4,005)	(4,005)	(399)	-	-	(16,419)
18/19	(30,845)	6.1	(5,057)	(5,057)	(5,057)	(5,057)	(5,057)	(5,057)	(503)	-	(25,788)
Total			(9,062)	(9,062)	(9,062)	(9,062)	(9,062)	(5,456)	(503)	-	(42,207)



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Supporting Calculations

Recognition of Deferred Outflows/Inflows at June 30, 2019

Projected Versus Actual Earnings on Investments

(Amounts in 000's)

Fiscal		Initial Recog		Amount Recognized in OPEB Expense for FY							Balances 0, 2019
Year	Initial Amt	Period	18/19	19/20	20/21	21/22	22/23	23/24	24/25+	Outflows	(Inflows)
17/18	(701)	5.0	(140)	(140)	(140)	(141)	-	-	-	-	(421)
18/19	(269)	5.0	(54)	(54)	(54)	(54)	(53)	-	-	-	(215)
Total			(194)	(194)	(194)	(195)	(53)	-	_		(636)
Net Deferred Outflows/(Inflows)								-	(636)		

 $Calculation\ of\ initial\ amount\ for\ 2018/19\ (2017/18\ measurement\ period):$

Projected earnings on investments of \$1,887 (page 27), less

Actual earnings on investments of \$2,156 (net investment income, page 15)



Recognition of Deferred Outflows/Inflows in Future OPEB Expense

(Amounts in 000's)

	19/20	19/20 20/21 21/22 22/23		23/24	Thereafter 24/25+	
Differences between Expected and Actual Experience	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
■ Changes of Assumptions	(9,062)	(9,062)	(9,062)	(9,062)	(5,456)	(503)
Projected Versus Actual Earnings on Investments	(194)	(194)	(195)	(53)	-	1
■ Total	(9,256)	(9,256)	(9,257)	(9,115)	(5,456)	(503)



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Supporting Calculations

Components of GASBS 75 OPEB Expense

	2018/19
	Measurement Period 2017/18
■ Service Cost	\$ 11,052
■ Interest on Total OPEB Liability	16,612
■ Projected earnings on investments	(1,887)
■ Employee contributions	(308)
■ Administrative expense	51
■ Changes of benefit terms	-
■ Recognition of deferred outflows/(inflows)	
• Experience	-
• Assumptions	(9,062)
Asset returns	(194)
■ OPEB Expense	16,264

<u>Components of GASBS 75 OPEB Expense*</u> Calculation of Projected Earnings on Investments

(Amounts in 000's)

	Dollar Amount	Expected Return	Portion of Year	Projected Earnings
■ Fiduciary Net Position (beginning of year)	\$ 26,445	6.75%		
■ Employer contributions	8,169	6.75%	17%	94
■ Employee contributions	308	6.75%	50%	10
■ Benefit payments	-	6.75%	0%	-
■ Administrative expenses	(51)	6.75%	50%	(2)
■ Projected earnings				1,887

^{*} The items on this page reflect trust activity only.



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Supporting Calculations

<u>Components of GASBS 75 OPEB Expense</u> Calculation of Interest on Total OPEB Liability

	Dollar Amount	Discount Rate	Portion of Year	Interest
■ Total OPEB Liability	\$ 415,957	3.95%	100%	\$ 16,430
■ Service Cost	11,052	3.95%	100%	437
■ Changes of benefit terms	-	3.95%	0%	-
■ Assumption changes*	(30,845)	3.95%	0%	-
■ Benefit payments	(12,903)	3.95%	50%	 (255)
■ Total interest				16,612

^{*} Liability determined as of the end of the measurement period, so no interest charge is applicable.



GASBS 75 Balance Equation

(Amounts in 000's)

	Fiscal Year Ending				
	6/30/18	6/30/19			
	Measurement Date 6/30/17	Measurement Date 6/30/18			
Total OPEB LiabilityFiduciary Net Position	\$ 415,957 26,445	\$ 399,873 37,027			
■ Net OPEB Liability	389,512	362,846			
Deferred inflows of resourcesDeferred (outflows) of resources	20,985	42,843			
■ Balance Sheet	410,497	405,689			

Check:

■ Balance Sheet 6/30/18	\$ 410,497
OPEB Expense	16,264
• Employer Contributions*	(21,072)
■ Balance Sheet 6/30/19	405,689

^{*} See the measurement period column on page 20 for details.

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Supporting Calculations

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Journal Entries

Employer Contributions

(Amounts in 000's)

The entries below assume cash benefit payments, Trust contributions, and administrative expenses have been charged to OPEB Expense when paid, and that no accounting entries have been made for the current year implied subsidy payment, which is recorded as a reduction to active employee health care costs. See page 20 for details.

Following records the impact of employer contributions as deferred outflows of resources and as a reduction to Net OPEB Liability.

	Debit	(Credit)
■ Net OPEB Liability - (for contributions paid 7/1/17 to 6/30/18)	\$ 21,072	\$ -
■ Deferred Outflow - 7/1/17 to 6/30/18 contributions	-	(21,072)
■ Deferred Outflow - 7/1/18 to 6/30/19 contributions	18,406	-
■ Active employee health care costs - (implied subsidy payments 7/1/18 to 6/30/19)	-	(4,483)
■ OPEB Expense - (for contributions paid 7/1/18 to 6/30/19)	-	(13,923)

Check 39,478 (39,478)



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Journal Entries

Summary Journal Entries - OPEB Expense

(Amounts in 000's)

Following records the impact of current year OPEB expense

]	Debit	(Credit)
■ Deferred Outflows*	\$	-	\$ -
■ Deferred Inflows**		-	(21,858)
■ OPEB Expense/Credit		16,264	-
■ Net OPEB Liability		5,594	-

Check 21,858 (21,858)

- * See page 34 ('Subtotal' row) for details.
- ** See page 35 for details.



Journal Entries

Ending Balances at June 30, 2019

(Amounts in 000's)

]	Debit	((Credit)
■ Deferral: Differences between expected and actual	\$	_	\$	-
experience				
■ Deferral: Changes of assumptions		-		(42,207)
■ Deferral: Net differences between projected and				
actual earnings on plan investments				(636)
■ Total deferred outflow/inflow		-		(42,843)
■ Net OPEB Liability (NOL)		-		(362,846)
■ Contributions after the Measurement Date		18,406		-
■ Net Impact		387,283		-

Check: 405,689 (405,689)

■ Total OPEB expense/(income) for FYE 2019	16,264	-
--	--------	---



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Journal Entries

Reconciliation of Deferred Outflows

Detail for page 32

Deferred Outflows	Opening Balance - Debit	Journal Entry - Debit	Journal Entry - (Credit)	Ending Balance - Debit	
 Differences between actual and expected experience 	\$ -	\$ -	\$ -	\$ -	
■ Change in assumptions	-	-	-	-	
■ Differences between projected and actual earnings on plan investments	-	-	-	-	
■ Subtotal - actuarial deferrals	-	-	-	-	
■ Contributions after the Measurement					
Date	21,072	18,406	(21,072)	18,406	
■ Total Deferred Outflows	21,072	18,406	(21,072)	18,406	

Journal Entries

Reconciliation of Deferred Inflows

Detail for page 32

(Amounts in 000's)

Deferred Inflows	Opening Balance - (Credit)	Journal Entry- (Credit)	Journal Entry - Debit	Ending Balance - (Credit)
 Differences between actual and expected experience 	\$ -	\$ -	\$ -	\$ -
■ Change in assumptions	(20,424)	(21,783)	-	(42,207)
■ Differences between projected and				
actual earnings on plan investments	(561)	(75)	-	(636)
■ Total Deferred (Inflows)	(20,985)	(21,858)	-	(42,843)



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Journal Entries

Reconciliation of Deferred Outflows/(Inflows) Summary of Balances

(Amounts in 000's)

	Fiscal Year Ending				
	6/30/18	6/30/19			
	Measurement Date 6/30/17	Measurement Date 6/30/18			
■ Total OPEB (Liability)	\$ (415,957)	\$ (399,873)			
■ Fiduciary Net Position	26,445	37,027			
■ Net OPEB (Liability)/Asset	(389,512)	(362,846)			
■ Deferred (inflows) of resources	(20,985)	(42,843)			
■ Deferred outflows of resources	21,072	18,406			
■ Balance Sheet Impact	(389,425)	(387,283)			

Deferred Outflows include contributions after the measurement date.



Crossover Test

Discount Rate Crossover Test

Projection of Contributions

(Amounts in 000's)

			ED Contrib for	EE Contails for	Contrib. from	Total Employer Contributions for
Year		Payroll	ER Contrib. for Current EE	EE Contrib. for Current EE	Payroll of Future EE	Current Employees
1	\$	294,510	\$ 21,072	\$ 308	\$ 0	\$ 21,380
2	•	289,359	18,162	303	0	18,465
3		284,049	16,905	278	0	17,183
4		278,159	17,672	265	0	17,937
5		271,908	18,291	251	0	18,542
6		265,118	18,895	238	0	19,133
7		257,504	19,714	225	0	19,939
8		249,126	20,488	212	0	20,700
9		239,334	21,193	198	0	21,391
10		229,113	21,959	184	0	22,143
*		*	*	*	*	*
25		70,306	24,702	34	0	24,735
26		62,195	23,756	28	0	23,785
27		54,284	22,825	23	0	22,848
28		46,605	21,147	18	0	21,165
29		39,079	19,774	14	0	19,789
*		*	*	*	*	*
85		0	0	0	0	0
86		0	0	0	0	0
87		0	0	0	0	0
88		0	0	0	0	0
89		0	0	0	0	0



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Crossover Test

Discount Rate Crossover Test

Projection of Fiduciary Net Position

Year	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Admin Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
1	\$ 26,445	\$ 21,380	\$ 12,903	\$ 51	\$ 2,156	\$ 37,027
2	37,027	18,465	14,890	19	2,437	43,021
3	43,021	17,183	16,184	22	2,358	46,355
4	46,355	17,937	17,214	23	2,548	49,603
5	49,603	18,542	18,108	25	2,737	52,750
6	52,750	19,133	19,005	26	2,919	55,770
7	55,770	19,939	20,143	28	3,085	58,623
8	58,623	20,700	21,261	29	3,239	61,272
9	61,272	21,391	22,340	31	3,382	63,675
10	63,675	22,143	23,498	32	3,505	65,794
*	*	*	*	*	*	*
25	44,270	24,735	33,348	22	1,863	37,497
26	37,497	23,785	32,910	19	1,420	29,773
27	29,773	22,848	32,492	15	913	21,028
28	21,028	21,165	31,329	11	362	11,215
29	11,215	19,789	30,478	6	0	520
*	*	*	*	*	*	*
85	0	0	4	0	0	0
86	0	0	2	0	0	0
87	0	0	2	0	0	0
88	0	0	1	0	0	0
89	0	0	1	0	0	0

Crossover Test

<u>Discount Rate Crossover Test</u> Present Values of Projected Benefit Payments

(Amounts in 000's)

Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	PV of "Funded" Portion of Benefit Payments	PV of "Unfunded" Portion of Benefit Payments	PV of Benefit Payments @ 4.50%
1	\$ 26,445	\$ 12,903	\$ 12,903	\$ 0	\$ 12,488	\$ 0	\$ 12,622
2	37,027	14,890	14,890	0	13,500	0	13,937
3	43,021	16,184	16,184	0	13,746	0	14,495
4	46,355	17,214	17,214	0	13,696	0	14,754
5	49,603	18,108	18,108	0	13,496	0	14,851
6	52,750	19,005	19,005	0	13,269	0	14,915
7	55,770	20,143	20,143	0	13,175	0	15,127
8	58,623	21,261	21,261	0	13,026	0	15,278
9	61,272	22,340	22,340	0	12,822	0	15,362
10	63,675	23,498	23,498	0	12,634	0	15,461
*	*	*	*	*	*	*	*
25	44,270	33,348	33,348	0	6,731	0	11,332
26	37,497	32,910	32,910	0	6,222	0	10,701
27	29,773	32,492	0	32,492	0	14,922	10,109
28	21,028	31,329	0	31,329	0	13,972	9,328
29	11,215	30,478	0	30,478	0	13,199	8,683
*	*	*	*	*	*	*	*
85	0	4	0	4	0	0	0
86	0	2	0	2	0	0	0
87	0	2	0	2	0	0	0
88	0	1	0	1	0	0	0
89	0	1	0	1	0	0	0
*	*	*	*	*	*	*	*
Total					285,735	200,948	486,683

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City of Sacramento