

BARTEL SSOCIATES, LLC

CITY OF ROCKLIN RETIREE HEALTHCARE PLAN

June 30, 2017 OPEB Actuarial Valuation Plan Funding for 2018/19 and 2019/20

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Nathan Hinojosa, Actuarial Analyst Tina Liu, Associate Actuary **Bartel Associates, LLC**

June 14, 2018

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BENEFIT SUMMARY

■ Eligibility	■ Full-time employees retiring directly from City under CalPERS					
	(age 50	0^1 and 5 years, or di	isability)			
■ Medical ²	■ City m	onthly cap:		_		
		Miscellaneous	Safety ³			
	2017	\$1,093	\$1,093			
	2018	1,093	1,200			
■ Surviving Spouse						
■ Other	■ No City paid dental, vision, life, Medicare Part B					
	■ Previou	us medical benefits	can be found in the	he back of the report		

Different caps, including a vesting schedule, applied prior to 7/1/2018, for Safety hired after 5/1/2003. \$1,200 cap effective 7/1/18 for all Safety.



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BENEFIT SUMMARY

■ Pay As ⁴	Fiscal Year	Cash Payments		
You Go	2016/17	\$ 1,281		
(\$000s)	2015/16	1,222		
	2014/15	1,121		
	2013/14	1,014		
	2012/13	918		
	2011/12	806		
	2010/11	697		
	2009/10	578		
	2008/09	483		
	2007/08	454		
	2006/07	384		
	2005/06	350		

⁴ Reported in CAFR



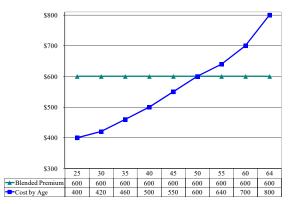


¹ Miscellaneous PEPRA retirees age 52 and 5 years

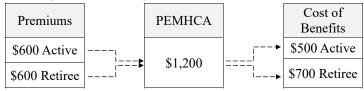
² Unrepresented/Hourly receive PEMHCA minimum (\$128/month in 2017; \$133/month 2018), 1 Fire retiree receives higher existing benefit of \$1,766/month, and 2 Police retiree receive the higher existing benefit of \$1,377/month.

Implied Subsidy

- For PEMHCA, employer cost for allowing retirees to participate at active rates.
 - General trend:



• Sample active age 40, retire age 60:





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IMPLIED SUBSIDY

Implied Subsidy

- GASBS 75 defers to actuarial standards of practice.
- Previous Actuarial Standards of Practice No. 6⁵ (ASOP 6) allowed community rated plans to value liability using premiums, resulting in no implied subsidy.
- In May 2014, Actuarial Standards Board released revised ASOP 6:
 - Requires implied subsidy valued for community rated plans such as PEMHCA.
 - Timing: effective with all valuations on or after March 31, 2015 with earlier implementation encouraged
- Valuations on and after 6/30/15 include the implied subsidy.

Measuring Retiree Group Benefits Obligations and Determining Retiree Group Benefits Plan Costs or Contributions.





PARTICIPANT STATISTICS

Actives

	6/30/10	6/30/12	6/30/13	6/30/15	6/30/16	6/30/17
■ Count						
 Miscellaneous 	154	136	139	144	138	143
• Unrepresented/Hourly	39	27	23	8	5	4
• Safety	<u>86</u>	<u>87</u>	<u>86</u>	<u>89</u>	89	<u>86</u>
• Total	279	250	248	241	232	233
■ Average						
• Age	43.4	44.7	44.1	44.5	44.5	45.0
• City Service	9.5	10.9	10.6	10.5	10.4	10.2
• CalPERS Service	11.6	13.3	13.0	12.9	12.9	13.0
• Pay	\$67,600	\$67,800	\$69,300	\$85,300	\$87,000	\$91,700
■ Total Payroll (000's)	18,853	16,956	17,174	20,553	20,186	21,373



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PARTICIPANT STATISTICS

Retirees

	6/30/10	6/30/12	6/30/13	6/30/15	6/30/16	6/30/17
■ Count ⁶						
• Miscellaneous	44	56	67	77	84	87
• Safety	<u>24</u>	<u>27</u>	<u>31</u>	34	_37	_38
• Total	68	83	98	111	121	125
■ Average						
• Age	61.4	62.0	62.1	63.2	63.5	64.0
Service Retirement						
Age						
➤ Miscellaneous	57.5	57.4	57.4	57.7	57.8	57.7
➤ Safety	53.0	52.3	52.7	53.0	53.0	52.8
Monthly Benefit	\$827	\$877	\$887	\$860	\$874	\$859

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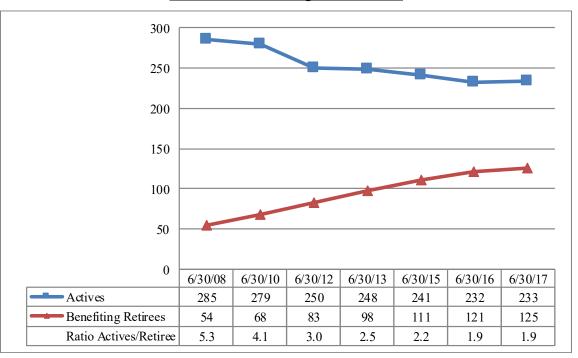




 $^{^6}$ Waived retirees excluded (5, 6, 7, 10, 13 and 16 at June 30, 2010, 2012, 2013, 2015, 2016 and 2017, respectively)

PARTICIPANT STATISTICS

Historical Participant Counts





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PARTICIPANT STATISTICS

Participant Reconciliation

	Actives	Retirees ⁷	Total
■ June 30, 2016	232	121	353
Withdrawal/Death	(16)	(3)	(19)
New Retirees	(7)	7	-
New Retirees - Waived	(2)	ı	(2)
• New Hires	26	-	26
Data Corrections	-	ı	-
■ June 30, 2017	233	125	358

⁷ Waived retirees excluded (13 and 16 at June 30, 2016 and 2017, respectively)



ACTUARIAL ASSUMPTION HIGHLIGHTS

	June 30, 2	016 Valuation	June 30, 2017 Valuation		
■ Valuation Date	■ June 30, 20	16	■ June 30, 201	7	
	2 017/18 & 2	2018/19 Funding	2 018/19 & 2	019/20 Funding	
■ Funding Plan ⁸	■ Pre-funded	phase-in:	■ Pre-funded p	hase-in:	
	<u>FYE</u>	ADC %	<u>FYE</u>	ADC %	
	2017	70%	2017	70%	
	2018	80%	2018	80%	
	2019	90%	2019	90%	
	2020+	100%	2020+	100%	
■ Valuation	1 7.00%		6.75%		
Discount Rate	■ Pre-funded through CERBT		■ Pre-funded t	hrough CERBT	
	Strategy 1 starting 13/14		Strategy 1 starting 13/14		
■ General	<i>C</i> ; <i>C</i>		2 .75%		
Inflation					

City contributes pay-go plus applicable percentage of difference between full ADC (at Full ADC Discount Rate) and pay-go. In 2013/14 City contributed additional \$1 million.
In addition to the percentages contributed through the funding plan, the City sets aside General Fund surplus per the Retiree's Health Reserve Key Management Practice.



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ACTUARIAL ASSUMPTION HIGHLIGHTS

	June 3	30, 2016 Valuation	June	30, 2017 Valuation		
■ Payroll Increases	■ Merit I	■ Merit Increases: CalPERS		 Aggregate Increases: 3.25% Merit Increases: CalPERS 1997-2011 Experience Study 		gate Increases: 3.00% Increases: CalPERS 2015 Experience Study
■ Mortality, Termination, Disability	Experie Fully go MP14 r ultimate 2022 fo	as 1997-2011 Ince Study Ince	 CalPERS 1997-2015 Experience Study Post-retirement mortality projected fully generational with Scale MP-2017 			
■ City Cap Increases	■ None		■ Same			
■ PEMHCA Minimum Increases	Year 2015 2016 2017 2018	PEMHCA Min \$ 122 125 128 4.5% increase/year	Year 2017 2018 2019 2020	PEMHCA Min \$ 128 133 136 4.25% increase/year		





ACTUARIAL ASSUMPTION HIGHLIGHTS

	June 30, 2016 Valuation			June	e 30, 2017 Va	luation
■ Healthcare		Increase from	Prior Year		Increase from Prior Yea	
Trend	N	Ion-Medicare	Medicare		Non-Medicare	<u>Medicare</u>
	Year	All Plans	All Plans	<u>Year</u>	All Plans	All Plans
	2015	Actual Pro		2017	Actual Premiu	
				2018	Actual Premiu	
	2016	Actual Pro		2019	7.50%	6.50%
	2017	Actual Pr	emiums	2020	7.50%	6.50%
	2018	6.5%	6.7%	2021	7.25%	6.30%
	2019	6.0%	6.1%	2022	7.00%	6.10%
				2023	6.75%	5.90%
	2020	5.5%	5.6%	2024	6.50%	5.70%
	2021+	5.0%	5.0%	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%
				2031-2035	5.05%	4.60%
				2036-2045	4.90%	4.50%
				2046-2055	4.75%	4.45%
				2056-2065	4.60%	4.40%
				2066-2075	4.30%	4.20%
				2076+	4.00%	4.00%



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ACTUARIAL ASSUMPTION HIGHLIGHTS

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ASSETS

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

	2013/14	2014/15	2015/16	2016/17
■ Market Value (Beginning of Year)	\$ -	\$ 1,772	\$ 4,045	\$ 8,342
Contributions	1,744	$2,277^9$	$4,266^{10}$	3,155
Benefit Payments	-	-	-	-
• Expenses	(0)	(2)	(3)	(6)
• Investment Earnings	28	(2)	34	839
■ Market Value (End of Year)	1,772	4,045	8,342	12,33011
■ Approximate Return	22.5%	(0.2%)	0.8%	10.0%

Includes contribution accrual of \$777,000.

¹¹ Based on CERBT Schedule of Changes in Fiduciary Net Position by Employer for the fiscal year ending 6/30/17. Beginning balance and changes during 2016/17 for GASBS 75 reporting will differ.



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ASSETS

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

	2013/14	2014/15	2015/16	2016/17
■ Actuarial Value (Beginning of Year)	\$ -	\$ 1,757	\$ 4,138	\$ 8,632
• Contributions	1,744	2,277	4,266	3,155
Benefit Payments	-	-	-	-
Credited Return	13	104	228	593
■ Actuarial Value (End of Year)	1,757	4,138	8,632	12,380
■ Approximate Return	10.3%	5.9%	5.5%	6.9%

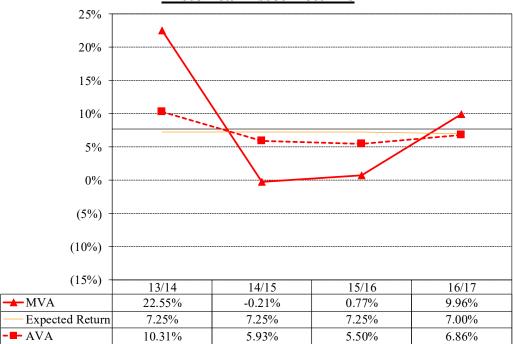




¹⁰ Includes contribution accrual of \$1,766,400.

ASSETS

Historical Asset Returns





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ASSETS

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Actuarial Obligations (Amounts in 000's)

	6/30/16	6/30/17
■ Discount Rate	7.00%	6.75%
■ Present Value of Benefits		
• Actives	\$ 25,557	\$ 21,503
• Retirees	<u>18,582</u>	<u>19,591</u>
• Total	44,139	41,094
■ Actuarial Accrued Liability (AAL)		
• Actives	13,624	12,121
• Retirees	18,582	<u>19,591</u>
• Total	32,206	31,712
■ Actuarial Value of Assets	8,632	<u>12,380</u>
■ Unfunded AAL (UAAL)	23,574	19,332
2018/19 Service Cost ¹²	1,498	1,255
■ 2018/19 Pay-As-You-Go Cost	1,603	1,666

¹² Included estimated expenses of \$12k for 18/19.



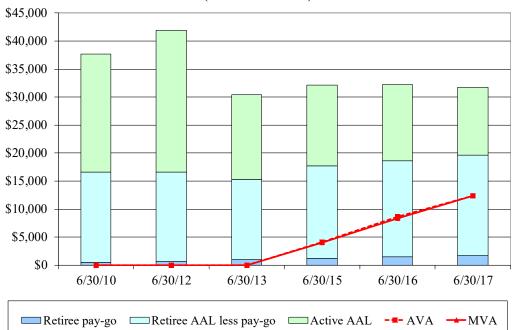
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RESULTS

Historical Funded Status (Amounts in 000's)







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

		AAL
■ 6/30/16 Actual		\$ 32,206
■ 6/30/17 Expected	d	34,316
■ Experience	Premiums less than expected	(869)
(Gains)/Losses	Demographic & other	<u>(1,174)</u>
	• Total	(2,043)
■ Assumption	Healthcare trend	1,025
Changes	Mortality Scale MP17 improvement	(490)
	• CalPERS 1997-2015 Experience Study	13
	• Discount rate from 7.00% to 6.75%	<u>1,006</u>
	• Total	1,554
■ Plan Changes	• Safety remove vesting schedule and cap at \$1,093	(2,755)
	• Safety cap Increase from \$1,093 to \$1,200	<u>640</u>
	• Total	(2,115)
■ Total (Gain)/Loss		(2,604)
■ 6/30/17 Actual	·	31,712



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RESULTS

Schedule of Funding Progress 13 (Amounts in 000's)

	Actuarial	Entry Age Actuarial	Unfunded Actuarial			UAAL as Percentage
Actuarial	Value of	Accrued	Accrued	Funded	Covered	of Covered
Valuation	Assets	Liability	Liability	Ratio	Payroll	Payroll
Date	(a)	(b)	(b-a)	(a/b)	(c)	((b-a)/c)
6/30/2008	\$ -	\$ 31,939	\$ 31,939	-	\$ 21,077	151.5%
6/30/2010	-	41,873	41,873	-	18,853	222.1%
6/30/2012 (pay-go)	-	44,572	44,572	-	16,956	262.9%
6/30/2012 (phase-in)	-	31,396	31,396	-	16,956	185.2%
6/30/2013	-	30,473	30,473	-	17,174	177.4%
6/30/2015	4,138	32,145	28,007	12.9%	20,553	136.3%
6/30/2016	8,632	32,206	23,574	26.8%	20,186	116.8%
6/30/2017	12,380	31,712	19,332	39.0%	21,373	90.5%

¹³ Select and ultimate discount rates were used for valuation dates before 6/30/2016.





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

	6/30/16 V	Valuation	6/30/17 Valuation		
	2017/18	2018/19 ¹⁴	2018/19	2019/20	
■ ADC - \$					
• Service Cost ¹⁵	\$ 1,498	\$ 1,547	\$ 1,255	\$ 1,294	
UAAL Amortization	2,123	2,231	<u>1,771</u>	<u>1,833</u>	
• Total	3,621	3,778	3,026	3,127	
■ Payroll	20,842	21,519	22,014	22,675	
■ ADC - % of Total City Payroll					
Service Cost	7.2%	7.2%	5.7%	5.7%	
UAAL Amortization	10.2%	10.4%	8.0%	8.0%	
• Total	17.4%	17.6%	13.7%	13.7%	

¹⁴ Provided for comparison purposes only

¹⁵ Included estimated expenses of \$12k for 18/19 and \$15k for 19/20.



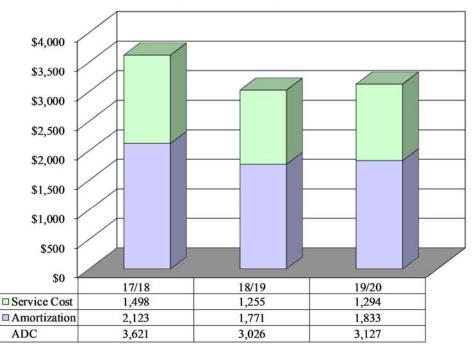
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Actuarially Determined Contributions (Amounts in 000's)







Amortization Bases (Amounts in 000's)

	6/30/16 V	aluation	6/30/17 Valuation		
	6/30/17	6/30/18	6/30/18	6/30/19	
■ Outstanding Balance	\$ 23,464	\$ 23,385	\$ 18,597	\$ 18,172	



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Amortization Payments (Amounts in 000's)

	6/30/16 V	Valuation	6/30/17 Valuation		
	2017/18	2018/19	2018/19	2019/20	
■ Amortization Payment	\$ 2,123	\$ 2,231	\$ 1,771	\$ 1,833	
■ Amortization Years	15	14	14	13	





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

		Contributions								
		Be	nefit Paym	ents		(f)	(g)			
Fiscal			(c)	(d)	(e)	Pre-	Total			
Year	(a)	(b)	Implied	Total	Phase-	Funding	Contribution			
Ending	ADC	Cash	Subsidy	(b)+(c)	in %	[(a) - (d)]*(e)	(d)+(f)			
2018/19	\$ 3,026	\$ 1,389	\$ 277	\$ 1,666	90%	\$ 1,224	\$ 2,890			
2019/20	3,127	1,500	343	1,843	100%	1,284	3,127			
2020/21	3,216	1,602	361	1,963	100%	1,253	3,216			
2021/22	3,308	1,682	372	2,054	100%	1,254	3,308			
2022/23	3,401	1,782	406	2,188	100%	1,213	3,401			
2023/24	3,495	1,914	434	2,348	100%	1,147	3,495			
2024/25	3,590	2,062	454	2,516	100%	1,074	3,590			
2025/26	3,686	2,221	464	2,685	100%	1,001	3,686			
2026/27	3,781	2,311	494	2,805	100%	976	3,781			
2027/28	3,876	2,409	481	2,890	100%	986	3,876			



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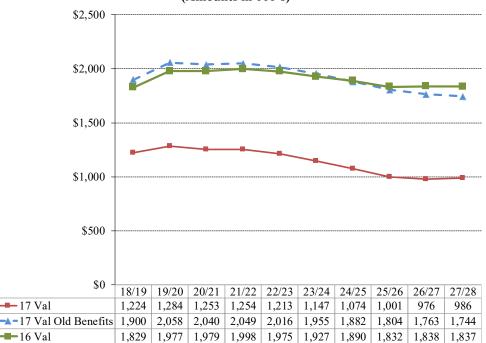
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RESULTS

Projected Trust Contribution Comparison

(Amounts in 000's)

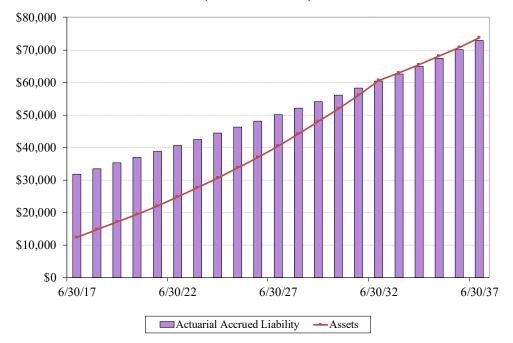






Projected Funded Status

(Amounts in 000's)





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RESULTS

Actuarial Obligations by Cash and Implied Subsidy

June 30, 2017 (Amounts in 000's)

	Cash	Implied	
	Subsidy	Subsidy	Total
■ Present Value of Benefits			
• Actives	\$ 16,615	\$ 4,888	\$ 21,503
• Retirees	<u>16,806</u>	<u>2,785</u>	<u>19,591</u>
• Total	33,421	7,673	41,094
■ Actuarial Accrued Liability (AAL)			
• Actives	9,323	2,798	12,121
• Retirees	<u>16,806</u>	2,785	<u>19,591</u>
• Total	26,129	5,583	31,712
■ Actuarial Assets ¹⁶	<u>10,200</u>	<u>2,180</u>	12,380
■ Unfunded AAL (UAAL)	15,929	3,403	19,332
2018/19 Service Cost ¹⁷	1,001	254	1,255
■ 2018/19 Pay-As-You-Go Cost	1,389	277	1,666

¹⁶ Assets allocated on AAL.

 $^{^{17}}$ Included estimated expenses of \$12k for 18/19.





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Actuarially Determined Contribution (ADC)

2018/19 Fiscal Year (Amounts in 000's)

	Cash	Implied	
	Subsidy	Subsidy	Total
■ ADC - \$			
• Service Cost ¹⁸	\$ 1,001	\$ 254	\$ 1,255
UAAL Amortization	<u>1,456</u>	<u>314</u>	<u>1,771</u>
• Total	2,457	569	3,026
■ Projected Payroll	22,014	22,014	22,014
■ ADC - %			
Service Cost	4.5%	1.2%	5.7%
UAAL Amortization	6.6%	1.4%	8.0%
• Total	11.1%	2.6%	13.7%

¹⁸ Included estimated expenses of \$12k for 18/19.



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RESULTS

Estimated 2018/19 Implied Subsidy Transfer for Medical Coverage For Illustrative Purposes Only

(Amounts in 000's)

Before Implied Subsidy

	Actives	Retirees	Total
■ Total Premium	3,185	1,582	4,767
■ Member Contribution ¹⁹		(304)	(304)
■ Employer Contribution	3,185	1,278	4,463

After Implied Subsidy

111001 Implied Substay								
	Actives	Retirees	Total					
■ Total Premium	3,185	1,582	4,767					
■ Member Contribution	-	(304)	(304)					
■ Implied Subsidy Transfer	(259)	<u>259</u>	_					
■ Employer Contribution	2,926	1,537	4,463					

¹⁹ Assumes no member contribution for actives.





GASB STATEMENT No. 75

- This OPEB accounting changes approved by GASB 6/2/15:
 - Effective for 2018 fiscal year
- Fundamental changes
 - Delinks contributions and accounting
 - Unfunded liability recognition drives expense
- Major issues:
 - Unfunded liability on balance sheet
 - Lower discount rate if projected assets do not cover projected benefit payments
 - Immediate recognition in OPEB expense of:
 - > Service & interest cost
 - Benefit changes
 - Deferred recognition in OPEB expense of:
 - ➤ Gains/losses & assumption changes, over future working lifetime (average of active and inactive employees) closed period
 - ➤ Asset gains/losses over 5 years
- GASBS 75 information provided under separate report



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ACTUARIAL CERTIFICATION

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

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

The report provides information intended for funding the City's Plan, 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. 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 assets 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 principals 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,

Doug Pryor, ASA, MAAA, EA Vice President Bartel Associates, LLC

Bartel Associates, LL June 14, 2018 Tina Liu, MAAA, EA

Associate Actuary Bartel Associates, LLC June 14, 2018



PREMIUMS

2016 PEMHCA Monthly Medical Premiums Sacramento

	N	on-Medica	re		Medicar	e
Plan	EE	EE+1	Family	EE	EE+1	Family
Anthem Select	\$902.07	\$1,804.14	\$2,345.38	n/a	n/a	n/a
Anthem Traditional	1,112.54	2,225.08	2,892.60	n/a	n/a	n/a
Blue Shield Access+	885.33	1,770.66	2,301.86	n/a	n/a	n/a
Blue Shield NetValue	900.73	1,801.46	2,341.90	n/a	n/a	n/a
Health Net SmartCare	747.55	1,495.10	1,943.63	n/a	n/a	n/a
Kaiser	695.11	1,390.22	1,807.29	\$ 297.23	\$594.46	\$891.69
UnitedHealthCare	686.36	1,372.72	1,784.54	320.98	641.96	962.94
PERS Choice	727.58	1,455.16	1,891.71	366.38	732.76	1,099.14
PERS Select	665.35	1,330.70	1,729.91	366.38	732.76	1,099.14
PERSCare	810.40	1,620.80	2,107.04	408.04	816.08	1,224.12
PORAC	699.00	1,399.00	1,789.00	442.00	881.00	1,408.00



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PREMIUMS

2017 PEMHCA Monthly Medical Premiums Sacramento

	Non-Medicare				Medicar	e
Plan	EE	EE+1	Family	EE	EE+1	Family
Anthem Select	\$ 907.08	\$1,814.16	\$2,358.41	n/a	n/a	n/a
Anthem Tradional	1,286.41	2,572.82	3,344.67	n/a	n/a	n/a
Blue Shield Access+	859.42	1,718.84	2,234.49	n/a	n/a	n/a
Health Net SmartCare	672.66	1,345.32	1,748.92	n/a	n/a	n/a
Kaiser	690.56	1,381.12	1,795.46	\$300.48	\$600.96	\$ 901.44
UnitedHealthCare	756.78	1,513.56	1,967.63	324.21	648.42	972.63
PERS Choice	723.47	1,446.94	1,881.02	353.63	707.26	1,060.89
PERS Select	641.47	1,282.94	1,667.82	353.63	707.26	1,060.89
PERSCare	812.40	1,624.80	2,112.24	389.76	779.52	1,169.28
PORAC	699.00	1,467.00	1,876.00	464.00	924.00	1,477.00

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PREMIUMS

2018 PEMHCA Monthly Medical Premiums Sacramento

	Non-Medicare			Medicare			
Plan	EE	EE+1	Family	EE	EE+1	Family	
Anthem Select	\$942.29	\$1,884.58	\$2,449.95	n/a	n/a	n/a	
Anthem Tradional	1,054.62	2,109.24	2,742.01	\$370.34	\$740.68	\$1,111.02	
Blue Shield Access+	806.71	1,613.42	2,097.45	n/a	n/a	n/a	
Health Net SmartCare	980.82	1,961.64	2,550.13	n/a	n/a	n/a	
Kaiser	703.96	1,407.92	1,830.30	316.34	632.68	949.02	
UnitedHealthCare	831.42	1,662.84	2,161.69	330.76	661.52	992.28	
Western Health Advantage	744.79	1,489.58	1,936.45	n/a	n/a	n/a	
PERS Choice	735.38	1,470.76	1,911.99	345.97	691.94	1,037.91	
PERS Select	684.90	1,369.80	1,780.74	345.97	691.94	1,037.91	
PERSCare	797.61	1,595.22	2,073.79	382.30	764.60	1,146.90	
PORAC	734.00	1,540.00	1,970.00	487.00	970.00	1,551.00	



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PREMIUMS

PEMHCA Monthly Premium Increases²⁰ Sacramento

	Non-M	edicare	Med	icare
Medical Plan	2017	2018	2017	2018
Anthem Select	0.6%	3.9%	n/a	n/a
Anthem Traditional	15.6%	(18.0%)	n/a	n/a
Blue Shield Access+	(2.9%)	(0.6%)	n/a	n/a
Health Net Smartcare	(10.0%)	45.8%	n/a	n/a
Kaiser	(0.7%)	1.9%	1.1%	5.3%
United HealthCare	10.3%	9.9%	1.0%	2.0%
Western Health Advantage	n/a	n/a	n/a	n/a
PERS Choice	(0.6%)	1.6%	(3.5%)	(2.2%)
PERS Select	(3.6%)	6.8%	(3.5%)	(2.2%)
PERSCare	0.2%	(1.8%)	(4.5%)	(1.9%)
PORAC	4.3%	5.0%	5.0%	5.0%

 $^{^{20}\,\,}$ The increases are for Single premiums only.





Active Participant Statistics June 30, 2017

	Miscellaneous	Safety	Unrepresented Hourly	Total
■ Count	143	86	4	233
■ Average:				
• Age	46.9	41.8	44.4	45.0
• Service	9.5	11.5	2.7	10.2
 CalPERS Service 	11.7	15.1	12.9	13.0
• Pay	\$ 82,200	\$ 111,900	n/a	\$ 91,700
■ Total Payroll (000s)	11,752	9,621	n/a	21,373



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DATA SUMMARY

Active Participant Statistics June 30, 2016

	Miscellaneous	Safety	Unrepresented Hourly	Total
■ Count	138	89	5	232
■ Average:				
• Age	46.8	41.6	33.8	44.5
• Service	10.0	11.3	3.6	10.4
• CalPERS Service	12.2	14.5	5.2	12.9
• Pay	\$ 74,70021	\$ 106,800	n/a	\$ 87,000
■ Total Payroll (000s)	10,685	9,501	n/a	20,186

²¹ Includes Unrepresented Hourly Pay





Retired Participant Statistics June 30, 2017

	Misc.	Safety	Total
■ Currently receiving benefit			
➤ Count < 65	43	31	74
➤ Count > 65	<u>44</u>		_51
Total Count	87	38	125
Average age	66.5	58.4	64.0
Average Retirement Age			
➤ Disabled Retirees	55.2	41.7	44.7
➤ Service Retirees	57.7	52.8	56.6
■ Waived			
➤ Count < 65	9	1	10
➤ Count > 65	_5	<u>1</u>	<u>6</u>
Total Count	14	2	16
• Average age	63.0	64.5	63.2
Average retirement age	56.7	43.6	55.1



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DATA SUMMARY

Retired Participant Statistics June 30, 2016

	Misc.	Safety	Total
■ Currently receiving benefit			
> Count < 65	44	30	74
➤ Count > 65	<u>40</u>		<u>47</u>
Total Count	84	37	121
Average age	66.0	58.0	63.5
Average Retirement Age			
➤ Disabled Retirees	55.2	41.7	44.7
Service Retirees	57.8	53.0	56.7
■ Waived			
➤ Count < 65	8	-	8
➤ Count > 65	_4	<u>1</u>	<u>5</u>
• Total Count	12	1	13
Average age	61.7	77.3	62.9
 Average retirement age 	56.6	37.0	55.0





Active Medical Plan Coverage

Plan	EE	EE+1	Family	Waived	Total
Anthem Select	3	-	-	ı	3
Anthem Traditional	2	-	-	-	2
Blue Shield Access+	13	2	3	ı	18
Kaiser	42	27	45	ı	114
United HealthCare	6	5	7	-	18
Western Health Advantage	_	1	-	-	1
PERS Choice	1	3	1	ı	5
PERS Select	1	1	3	-	5
PERSCare	3	-	-	-	3
PORAC	5	3	18	ı	26
Waived	_	_	_	38	38
Total	76	42	77	38	233



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DATA SUMMARY

Retiree Medical Plan Coverage Under Age 65

Plan	EE	EE+1	Family	Waived	Total
Blue Shield Access+	3	4	-	-	7
Kaiser	12	20	9	-	41
United HealthCare	2	3	5	-	10
PERS Choice	2	7	2	-	11
PERSCare	3	-	-	-	3
PORAC	-	1	1	-	2
Waived	-	-	-	10	10
Total	22	35	17	10	84

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Retiree Medical Plan Coverage Over Age 65

Plan	EE	EE+1	Family	Waived	Total
Blue Shield Access+	1	-	-	-	1
Kaiser	4	10	2	-	16
United HealthCare	1	7	-	-	8
PERS Choice	1	9	2	-	12
PERS Select	1	1	-	-	2
PERSCare	7	5	-	-	12
Waived	-	-	-	6	6
Total	15	32	4	6	57



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DATA SUMMARY

Actives by Age and Service Total

	City Service									
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total		
< 25	3	2	-	-	-	-	-	5		
25-29	1	15	1	-	-	-	-	17		
30-34	5	8	8	1	-	-	-	22		
35-39	4	12	6	7	2	-	-	31		
40-44	5	4	3	12	10	-	-	34		
45-49	1	9	6	15	11	3	3	48		
50-54	4	4	1	8	12	5	1	35		
55-59	-	6	1	7	4	2	8	28		
60-64	2	-	-	4	3	2	-	11		
≥ 65	-	1	-	-	1	-	-	2		
Total	25	61	26	54	43	12	12	233		





Actives by Age and Service Miscellaneous

	City Service									
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total		
< 25	3	1	-	-	-	-	-	4		
25-29	1	9	1	-	-	-	-	11		
30-34	2	5	4	1	-	-	-	12		
35-39	4	9	1	2	-	-	-	16		
40-44	3	2	1	4	2	-	-	12		
45-49	1	9	3	8	5	1	1	28		
50-54	4	4	1	5	8	2	1	25		
55-59	-	6	1	7	4	1	8	27		
60-64	2	-	-	4	3	1	-	10		
≥ 65	-	1	-	-	1	-	-	2		
Total	20	46	12	31	23	5	10	147		



June 14, 2018

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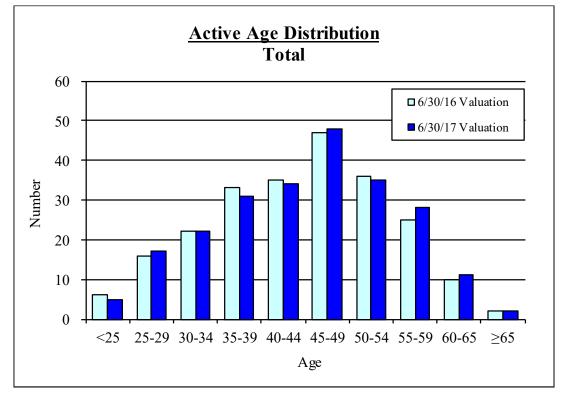
DATA SUMMARY

Actives by Age and Service Safety

	City Service									
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total		
< 25	-	1	-	-	-	-	-	1		
25-29	-	6	-	-	-	-	-	6		
30-34	3	3	4	-	-	-	-	10		
35-39	-	3	5	5	2	-	-	15		
40-44	2	2	2	8	8	-	-	22		
45-49	-	-	3	7	6	2	2	20		
50-54	-	-	-	3	4	3	-	10		
55-59	-	-	-	-	-	1	-	1		
60-64	-	-	-	-	-	1	-	1		
≥ 65	-	-	-	-	-	-	-	-		
Total	5	15	14	23	20	7	2	86		







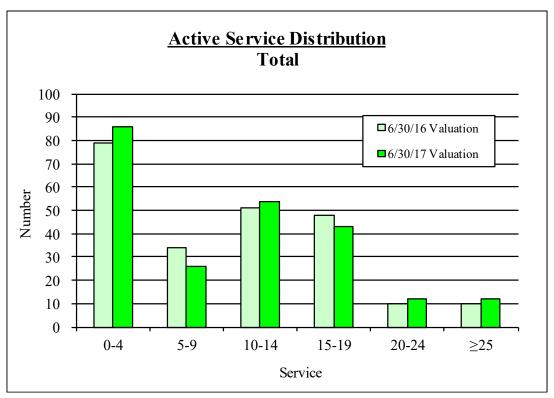
(B₄)

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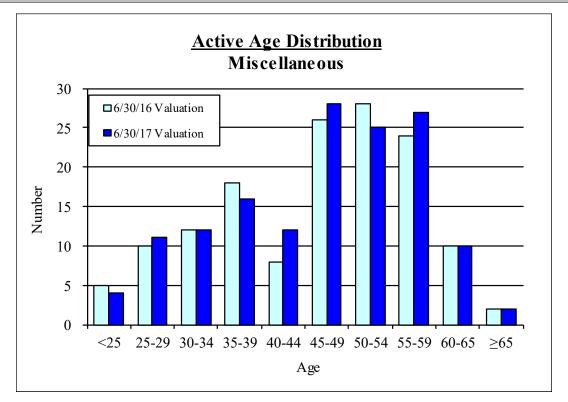


DATA SUMMARY



(B)





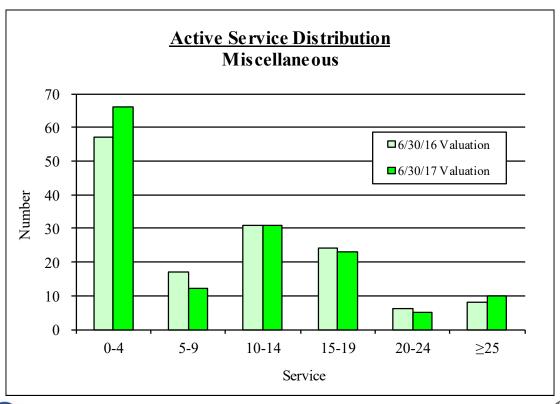


June 14, 2018

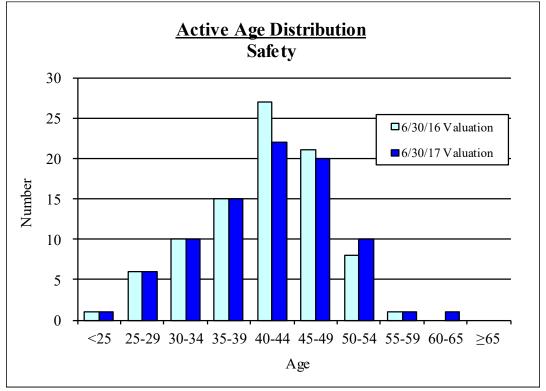
E-17



DATA SUMMARY



(B₄)



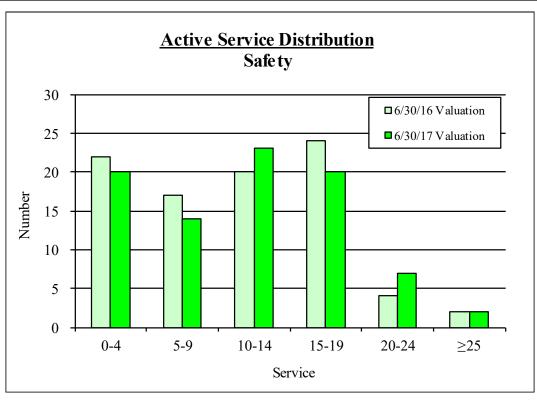
(B/4)

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DATA SUMMARY



(B)



Retiree Medical Coverage by Age Group Total

Age	EE	EE+1	Family	Waived	Total
Under 50	1	2	2	-	5
50-54	1	7	1	2	11
55-59	7	11	9	1	28
60-64	13	15	5	7	40
65-69	5	16	2	4	27
70-74	3	9	2	1	15
75-79	1	5	-	1	7
80-84	4	1	-	-	5
85 & Over	2	1	-	-	3
Total < 65	22	35	17	10	84
Total ≥ 65	15	32	4	6	57
Total	37	67	21	16	141
Average Age	66.4	64.3	58.8	63.2	63.9

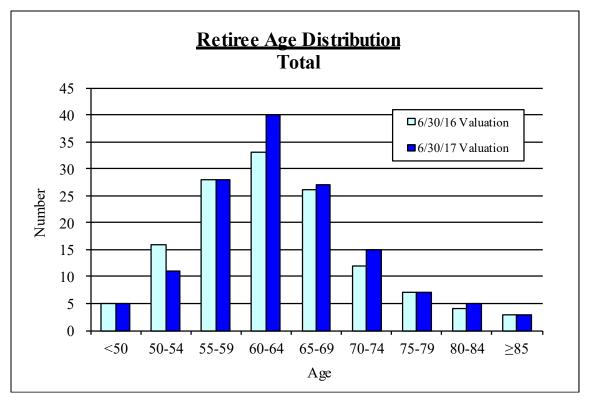


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DATA SUMMARY



(B₄)

Retiree Medical Coverage by Age Group Miscellaneous

Age	EE	EE+1	Family	Waived	Total
Under 50	-	-	-	-	-
50-54	-	3	-	1	4
55-59	4	6	6	1	17
60-64	11	12	1	7	31
65-69	5	13	1	4	23
70-74	3	7	1	1	12
75-79	1	5	-	-	6
80-84	4	1	-	-	5
85 & Over	2	1	-	-	3
Total < 65	15	21	7	9	52
Total \geq 65	15	27	2	5	49
Total	30	48	9	14	101
Average Age	68.6	66.5	59.7	63.0	66.0

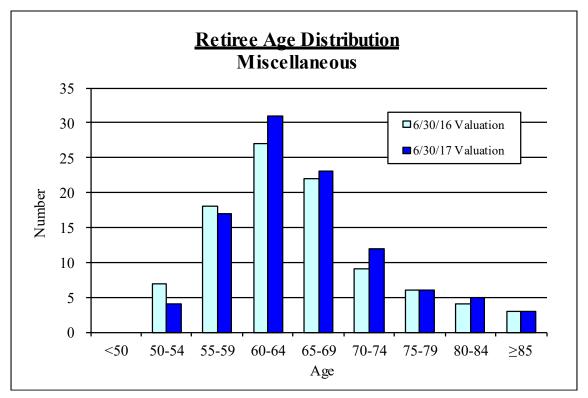


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DATA SUMMARY



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Retiree Medical Coverage by Age Group Safety

Age	EE	EE+1	Family	Waived	Total
Under 50	1	2	2	-	5
50-54	1	4	1	1	7
55-59	3	5	3	-	11
60-64	2	3	4	-	9
65-69	-	3	1	-	4
70-74	-	2	1	-	3
75-79	-	_	_	1	1
80-84	-	-	-	-	-
85 & Over	-	-	-	-	-
Total < 65	7	14	10	1	32
Total ≥ 65	0	5	2	1	8
Total	7	19	12	2	40
Average Age	57.2	59.0	58.1	64.5	58.7

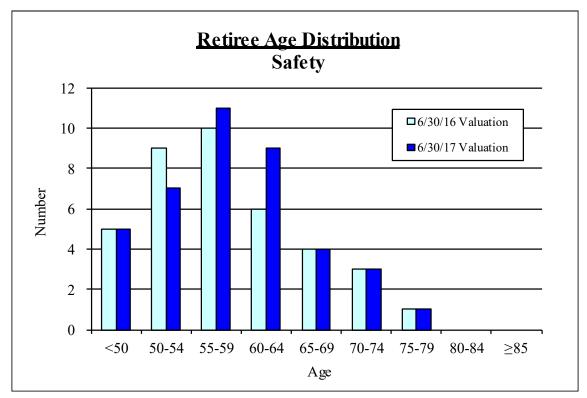


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DATA SUMMARY







Medical Plan Participation

		Retiree			
Plan	Active	Pre-65	Post-65	Total	
Anthem Select	2%	0%	0%	0%	
Anthem Traditional	1%	0%	0%	0%	
Blue Shield Access+	9%	10%	2%	6%	
Kaiser	59%	55%	31%	46%	
United HealthCare	9%	13%	16%	14%	
PERS Choice	3%	15%	24%	18%	
PERS Select	3%	0%	4%	2%	
PERSCare	1%	4%	24%	12%	
PORAC	13%	3%	0%	2%	
Total	100%	100%	100%	100%	



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DATA SUMMARY

Participant Counts by Tier

	6/30/08	6/30/10	6/30/12	6/30/13	6/30/15	6/30/16	6/30/17
■ Actives							
• Tier 1	160	146	129	116	166	154	156
• Tier 2	125	94	94	109	67	73	73
• Unrepresented/ Hourly		_39	_27	_23	8	5	4
• Total	285	279	250	248	241	232	233
■ Retirees ²²							
• Tier 1	54	66	80	92	106	108	134
• Tier 2	-	2	3	6	4	11	5
• Unrepresented/ Hourly					1	2	2
• Total	54	68	83	98	111	121	141

²² Waived retirees excluded





ACTUARIAL METHODS

	June 30, 2016 Valuation	June 30, 2017 Valuation
■ Cost Method	■ Entry Age Normal	■ Same
■ Amortization	■ Level percentage of payroll	■ Same
■ Actuarial Value of Assets	 ■ Valuation assets projected to June 30, 2017 (using actual June 30, 2016 assets) ■ Asset gains/losses recognized over 5 years ■ Shorter period but same method as CalPERS Pension ■ Corridor: 80% & 120% of market value 	 ■ Valuation assets projected to June 30, 2018 (using actual June 30, 2017 assets) ■ Asset gains/losses recognized over 5 years ■ Shorter period but same method as CalPERS Pension ■ Corridor: 80% & 120% of market value
■ Future New Entrants	■ Closed group – no new participants	■ Same



June 14, 2018

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ACTUARIAL METHODS

■ Unfunded Liability Amortization	 Initial UAAL – 19-year fixed (closed) period (15 years remaining at 6/30/18) Maximum 30-year combined period 	 ■ Initial UAAL – 19-year fixed (closed) period (14 years remaining at 6/30/19) ■ Maximum 30-year combined period
■ ACA Excise Tax	■ Estimated by 2% load on cash subsidy	■ Same

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ACTUARIAL ASSUMPTIONS

	June	30, 2016	Valuation	June 30, 2017 Valuation			
Service Retirement	■ CalPERS 1997-2011 Experience Study ²³ Misc. Safety			■ CalPERS 1997-2015 Experience Study Misc. Safety			
	Benefit ERA	2%@55 61.0	3%@50 54.0 (Fire) 54.7 (Police)	Benefit ERA	2%@55 61.2	3%@50 54.7 (Fire) 54.2 (Police)	
	PEPRA Benefit ERA	Misc. 2%@62 62.5	Safety 2.7%@57 56.4 (Fire) 54.0 (Police)	PEPRA Benefit ERA	Misc. 2%@62 63.1	Safety 2.7%@57 56.7 (Fire) 55.5 (Police)	

 $[\]overline{2^3}$ 2%@60 for miscellaneous hired after 6/30/12.



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ACTUARIAL ASSUMPTIONS

	June 30, 20	16 Valu	ation	June 30, 2017 Valuation
■ Medical Plan at	■ Actives:			■ Same
Retirement	Medical Plan	<u>Pre-65</u>	Post-65	
	Blue Shield	10%	0%	
	BS Net Value	0%	0%	
	Kaiser	55%	30%	
	UnitedHealth	15%	20%	
	PERS Choice	20%	25%	
	PERSCare	0%	25%	
	■ Retirees < 65	5:		
	• Pre-65: Sar election	ne as cui	rent	
	• Post 65: Po assumptio		etives	
	■ Retirees ≥ 65 current election		as	





ACTUARIAL ASSUMPTIONS

	June 30, 2016 Valuation	June 30, 2017 Valuation
■ Participation at Retirement	 Actives and Retirees currently covered: 100% Actives currently waived: 80% Retirees currently waived: 10% elect at 65 Unrepresented & Hourly: 60% 	■ Same
■ Marital Status at Retirement	 Currently Covered: same as current election Currently Waived: 80% married 	■ Same
■ Medicare Eligible Rate	 100% Everyone eligible for Medicare will elect Part B coverage 	■ Same



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ACTUARIAL ASSUMPTIONS

	June 30, 2016 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 provided 	■ Same
■ Dependents at Retirement	 Actives: Misc: 20% Safety: 30% Retirees: same as current coverage until age 65 	■ Same
Surviving Spouse Participation	■ 100%	■ Same





PREVIOUS VALUATION BENEFIT

■ Medical ²⁴	All Miscellaneous & Safety Hired < 5/1/2003				Safety ²⁵ Hired ≥ 5/1/2003				
	■ City cap:					■ Cap greater of City cap and State			
					100/90 premium:				
	Si	ingle	2-Party	Family			Single	2-Party	Family
	2016 \$1	,093	\$1,093	\$1,093		2016	\$705	\$1,343	\$1,727
	2017 1	,093	1,093	1,093		2017	707	1,349	1,727
	•				■ Vesting schedule applied ²⁶ :				:
					CalPERS Service Vested Perce				l Percent
						<	10	()%
					10			5	0%
				↓ ↓			ļ		
						<u>></u>	20	1(00%
					•	Minim	ium 5 ye	ars City s	ervice

²⁶ 100% vested at disability retirement or 20 years City service



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DEFINITIONS

GASBS 75 Accrual Accounting	 Project future employer-provided benefit cash flows for current active employees and current retirees 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 employer pay-as-you-go benefit payments for retirees Implied subsidy is difference between actual cost of retiree benefits and retiree premiums subsidized by active employee premiums





 $^{^{24}\,}$ Unrepresented/Hourly receive PEMHCA minimum (\$125/month in 2016; \$128/month 2017)

²⁵ Includes police administration

DEFINITIONS

Present Value of Benefits

Present Value of Benefits (Without Plan Assets)



Present Value of Benefits (With Plan Assets)



(B₄)

