

BARTEL ISSOCIATES, LLC

June 30, 2019 Actuarial Valuation Final Results

Bartel Associates, LLC Joseph R. D'Onofrio, FSA Wai Man Yam, Actuarial Analyst Katherine Moore, Associate Actuary March 13, 2020

CONTENTS

Topic	Page
Benefit Summary	1
Funding Policy	5
Participant Summary	7
Assets	11
Valuation Results	13
Actuarial Certification	26
Exhibits	27

BENEFIT SUMMARY

■ Eligibility	 Retire directly from Town under CalPERS (service or disability) Town Council members in CalPERS eligible
Retiree Medical Benefit Tier 1	 Maximum Town contribution is Kaiser Bay Area/Region 1 single premium plus 90% of difference between Kaiser premium for coverage elected (2-party and family) and single premium using: Non-Medicare premium for employees who retired before 2/1/16¹ Non-Medicare and Medicare premiums for employees who retired on or after 2/1/16 Town contribution uses PEMHCA 5% unequal method Town joined PEMHCA in 1991 Maximum annual increase of \$100 per month - \$1,647.16 for family coverage (B/B/B) for 2019

¹ The prior valuation as of 6/30/17 assumed the Town contribution for Medicare eligible retirees who retired before 2/1/16 was based on the Kaiser Bay Area Medicare premium rather than the non-Medicare premium.

BA March 13, 2020

1

BENEFIT SUMMARY

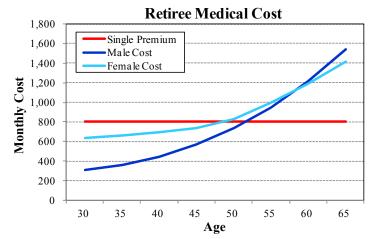
■ Retiree	PEMHCA minimum amount for:						
Medical	Employee Group	Hired After					
Benefit	TEA	8/22/18					
Tier 2	AFSCME	7/1/18					
	POA	10/1/18					
	Management	10/1/18					
	Confidential	10/1/18					
	Town Manager	10/1/18					
	Town Attorney	10/1/18					
	Town Council	10/1/18					
■ PEMHCA	2019 \$136 / month						
Minimum	2020 \$139 / month						
Amount	2021 \$143 / month (es	timated)					
	2022+ Medical CPI incr	reases					
■ Surviving Spouse Benefit	• Retiree benefit paid to surviving spouse of retiree with CalPERS joint and survivor payment option						
	• Retiree benefit paid to spouse of a while eligible to retire receiving (1 2					



BENEFIT SUMMARY

■ Implicit Subsidy

- Retirees pay blended medical premiums rather than expected medical costs by age and gender
- Active premiums subsidize non-Medicare eligible retiree medical costs ("implicit subsidy")



• Implicit subsidy required by Actuarial Standards of Practice for actuarial valuations for PEMHCA plans after 3/31/15

March 13, 2020

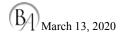
3



BENEFIT SUMMARY



This page intentionally blank





FUNDING POLICY

■ Funding Policy	 Contribute at least full ADC² less cash subsidy and implicit subsidy benefit payments with OPEB trust (CERBT Investment Strategy #1) Cash subsidy and implicit subsidy benefit payments and PEMHCA administrative fees currently paid by the Town and not reimbursed from OPEB trust Unfunded Liability amortized over 18 years for 2020/21 							
■ Pay-As-You-Go Cost (000's)	Fiscal <u>Year</u> 2018/19 2017/18 2016/17 2015/16 2014/15 2013/14 2012/13 2011/12 2010/11 2009/10	Cash <u>Subsidy</u> \$1,104 1,138 1,040 943 859 754 687 636 581 400	Implicit Subsidy \$195 188 229 253 n/a n/a n/a n/a n/a n/a	PEMHCA Fees \$8 9 9 n/a n/a n/a n/a n/a n/a n/a n/a n/a	Total PayGo \$1,307 1,335 1,278 1,196 859 754 687 636 581 400	Trust Paid \$0 0 0 0 0 0 0 0 0 0 0 0 0	Town Paid \$1,307 1,335 1,278 1,196 859 754 687 636 581 400	

² Actuarially Determined Contribution (ADC) is GASBS 75's terminology for the recommended funding contribution.



5



FUNDING POLICY

■ Town Contributions ('000's)	Fiscal <u>Year</u> 2018/19 2017/18 2016/17 2015/16	Town PayGo \$1,307 1,335 1,278 1,196	Trust Prefund \$1,100 1,600 2,600 1,500	Total <u>Contrib</u> \$2,407 2,935 3,878 2,696	ARC/ <u>ADC</u> \$2,108 2,129 2,067 1,913	Discount <u>Rate</u> 6.75% 7.25% 7.25% 7.25%
	2014/15 2013/14 2012/13 2011/12 2010/11 2009/10	859 754 687 636 581 400	1,300 1,300 1,200 1,060 850 550	2,159 2,054 1,887 1,696 1,431 950	1,864 2,619 2,492 2,129 1,990 1,953	7.25% S&U S&U S&U S&U S&U S&U

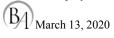


PARTICIPANT SUMMARY

Eligible Participants - June 30, 2019

CalPERS Classification	Misc		Safety		Total	
■ Actives						
 Participating 	87	78%	30	79%	117	79%
Waived Coverage	_24	22%	_8	21%	32	21%
• Total Actives	111	100%	38	100%	149^{3}	100%
Average Age	4	44.8	43.1		44.4	
Average Town Service		8.0	10.7		8.7	
• Total Payroll (000's)	\$10,364		\$5,522		\$15,886	
■ Retirees						
 Participating 	94	74%	36	75%	130	74%
Waived Coverage	33	26%	<u>12</u>	25%	<u>45</u>	26%
• Total Retirees	127	100%	48	100%	175	100%
Average Age	72.3		72.3 64.6		7	70.2
Average Service Retirement Age	59.9		59.9 53.4		5	58.6
Average Disabled Retirement Age	4	49.8	4	46.3	4	16.5
■ Retirees/Actives	1	14%	12	26%	117%	

³ 10 active employees on 6/30/19 are in Tier 2.



7



PARTICIPANT SUMMARY

Eligible Participants - June 30, 2017

CalPERS Classification	Misc Safety		Total			
■ Actives						
 Participating 	83	74%	29	81%	112	76%
Waived Coverage	<u>29</u>	<u>26%</u>	_7	<u>19%</u>	<u>36</u>	24%
Total Actives	112	100%	36	100%	148	100%
Average Age	2	14.3	4	42.9		13.9
Average Town Service		7.7	11.0		8.5	
• Total Payroll (000's)	\$9	,400	\$4,651		\$14,051	
■ Retirees						
 Participating 	90	71%	32	71%	122	71%
Waived Coverage	_37	29%	<u>13</u>	29%	_50	29%
Total Retirees	127	100%	45	100%	172	100%
Average Age	71.1		1 63.3		ϵ	59.0
Average Service Retirement Age	59.8		4	53.6	5	58.6
Average Disabled Retirement Age	4	49.8 46.4 46		16.6		
■ Retirees/Actives	11	2%	12	25%	11	6%



PARTICIPANT SUMMARY

Participant Reconciliation Miscellaneous

		Retirees			
Participants	Actives	Service	Disabled	Survivors	Total
■ June 30, 2017	112	113	1	13	127
• Terminations ⁴	(16)	-	-	-	-
New Retirees & Survivors	(6)	6	0	0	6
• Retiree Deaths with Survivor	-	(3)	(0)	3	-
• Retiree Deaths without Survivor ⁵	-	(4)	(0)	(2)	(6)
New Participants	21	_	-	_	-
■ June 30, 2019	111	112	1	14	127

⁴ Active employees reported for the 6/30/17 valuation and not reported for the 6/30/19 valuation were assumed to be terminations and deaths before retirement.

⁵ Retirees reported for the 6/30/17 valuation and not reported for the 6/30/19 valuation were assumed to be deaths without covered survivors.



9

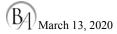
PARTICIPANT SUMMARY

Participant Reconciliation Safety

		Retirees			
Participants	Actives	Service	Disabled	Survivors	Total
■ June 30, 2017	36	25	16	4	45
• Terminations ⁶	(1)	-	-	-	-
New Retirees & Survivors	(3)	2	1	0	3
Retiree Deaths with Survivor	-	(0)	(1)	1	-
• Retiree Deaths without Survivor ⁷	-	(0)	(0)	(0)	(0)
New Participants	6	-	-	-	-
■ June 30, 2019	38	27	16	5	48

⁶ Active employees reported for the 6/30/17 valuation and not reported for the 6/30/19 valuation were assumed to be terminations and deaths before retirement.

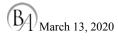
⁷ Retirees reported for the 6/30/17 valuation and not reported for the 6/30/19 valuation were assumed to be deaths without covered survivors.



ASSETS

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

Market Value of Assets	2015/16	2016/17	2017/18	2018/19
■ Market Value at Beginning of Year	\$8,346	\$9,958	\$13,601	\$16,277
 Town Contributions 				
> Trust Prefunding Contributions	1,500	2,600	1,600	1,100
> Town Cash Subsidy Benefit Payments	943	1,040	1,138	1,104
> Town Implicit Subsidy Benefit Payments	253	229	188	195
> PEMHCA Administrative Fees	<u>n/a</u>	9	9	8
> Total Contributions	2,696	3,878	2,935	2,407
 Investment Earnings 	119	1,053	1,088	1,017
Benefit Payments				
➤ Cash Subsidy Benefit Payments	(943)	(1,040)	(1,138)	(1,104)
> Implicit Subsidy Benefit Payments	(253)	(229)	(188)	(195)
> Total Benefit Payments	(1,196)	(1,269)	(1,326)	(1,299)
• Investment Expenses	(3)	(4)	(5)	(6)
 CERBT Administrative Expenses 	(4)	(5)	(7)	(8)
 PEMHCA Administrative Fees 	n/a	(9)	(9)	(8)
■ Market Value at End of Year	9,958	13,601	16,277	18,380
■ Estimated Annual Return	1.4%	10.5%	8.0%	6.2%
■ CERBT #1 Annual Return	1.0%	10.6%	8.0%	6.2%





ASSETS

11

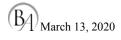
Actuarial Value of Plan Assets (Amounts in 000's)

Actuarial Value of Assets	2015/16	2016/17	2017/18	2018/19
■ Actuarial Value at Beginning of Year	\$8,238	\$10,261	\$13,605	\$16,149
 Town Contributions 	2,696	3,878	2,935	2,407
 Expected Net Earnings 	598	745	919	1,091
 Benefit Payments 	(1,196)	(1,269)	(1,326)	(1,299)
Administrative Expenses	n/a	(9)	(16)	(16)
■ Expected AVA at End of Year	10,336	13,606	16,117	18,332
■ Accrued Market Value at End of Year	9,958	13,601	16,277	18,380
■ MVA - Expected AVA	(379)	(5)	160	48
■ 1/5 of (MVA - Expected AVA)	(76)	(1)	32	10
■ Preliminary AVA	10,261	13,605	16,149	18,341
■ Minimum AVA (80% of MVA)	7,966	10,881	13,021	14,704
■ Maximum AVA (120% of MVA)	11,949	16,321	19,532	22,056
■ Actuarial Value at End Year	10,261	13,605	16,149	18,341
■ Actuarial Value Estimated Net Return	6.3%	7.2%	7.0%	6.8%
■ AVA/MVA	103%	100%	99%	100%



Actuarial Obligations

	6/30/17 Valuation		6/	/30/19 Valuat	<u>ion</u>
Actuarial Obligations	Actual	Projected	Actual	Projected	Projected
(Amounts in 000's)	6/30/17	6/30/19	6/30/19	6/30/20	6/30/21
■ Discount Rate	6.75%	6.75%	6.75%	6.75%	6.75%
■ Present Value of Benefits					
• Actives	\$19,569	n/a	\$19,848	n/a	n/a
• Retirees	<u>15,436</u>	<u>n/a</u>	<u>16,952</u>	<u>n/a</u>	<u>n/a</u>
• Total	35,005	\$37,106	36,800	\$37,794	\$38,814
■ Actuarial Accrued Liability					
• Actives	9,337	n/a	10,065	n/a	n/a
• Retirees	<u>15,436</u>	<u>n/a</u>	16,952	<u>n/a</u>	<u>n/a</u>
• Total	24,773	28,061	27,017	28,568	30,155
■ Actuarial Value of Assets	13,605	17,084	<u>18,341</u>	20,259	21,949
■ Unfunded AAL	11,168	10,977	8,676	8,309	8,206
■ Funded Percentage	54.9%	60.9%	67.9%	70.9%	72.8%
■ Annual Cost for Following Year					
 Normal Cost 	1,247	1,323	1,217	1,191	1,171
 PEMHCA Administrative Fees 	4	4	2	2	2
 CERBT Administrative Expenses 	8	10	9	10	<u>11</u>
• Annual Cost	1,259	1,337	1,228	1,203	1,184





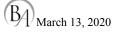
VALUATION RESULTS

13

Actuarial Obligations June 30, 2019

Actuarial Obligations	Cash	Implicit	Total
(Amounts in 000's)	Subsidy	Subsidy	Subsidy
■ Discount Rate	6.75%	6.75%	6.75%
■ Present Value of Benefits			
• Actives	\$16,486	\$3,362	\$19,848
 Retirees 	<u>15,694</u>	<u>1,258</u>	<u>16,952</u>
• Total	32,180	4,620	36,800
■ Actuarial Accrued Liability			
• Actives	8,358	1,707	10,065
• Retirees	<u>15,694</u>	<u>1,258</u>	<u>16,952</u>
• Total	24,052	2,965	27,017
■ Actuarial Value of Assets ⁸	<u>16,328</u>	<u>2,013</u>	<u>18,341</u>
■ Unfunded AAL	7,724	952	8,676
■ Annual Cost 2020/21			
Normal Cost	993	197	1,191
 PEMHCA Administrative Fee 	2	n/a	2
 CERBT Administrative Expenses 	<u>10</u>	<u>n/a</u>	<u>10</u>
Annual Cost	1,005	197	1,203

⁸ Actuarial Value of Assets allocated to cash subsidy and implicit subsidy in proportion to Actuarial Accrued Liability.





Estimated Gains & Losses (Amounts in 000's)

Actuarial Gains & Losses	AAL	(AVA)	UAAL	Fund%
■ 6/30/17 Actual Amounts	\$24,773	\$(13,605)	\$11,168	54.9%
■ 6/30/19 Expected Amounts	28,061	(17,084)	10,977	60.9%
■ Plan Grandfather Benefits	1,167	-	1,167	
■ Experience Losses (Gains)				
• Actual versus expected premiums ⁹	(1,251)	-	(1,251)	
• Demographic & other	(88)	-	(88)	
• Asset loss (gain)	-	(1,257)	(1,257)	
■ Assumption Changes				
 Mortality improvement 	(160)	-	(160)	
• Participation at retirement ¹⁰	(231)	-	(231)	
 Remove ACA high cost plan excise tax 	_(481)		_(481)	
■ Total Changes	(1,044)	(1,257)	(2,301)	7.0%
■ 6/30/19 Actual Amounts	27,017	(18,341)	8,676	67.9%

⁹ Includes the impact of actual versus expected premiums and changes in claims aging factors. ¹⁰ Includes change in family coverage at retirement assumption.



15



VALUATION RESULTS



This page intentionally blank





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

Actuarially Determined	6/30/17 V	Valuation	<u>6/30/19 Valuati</u>		
Contribution	2018/19	2019/20	2020/2111	2021/22	
■ Discount Rate	6.75%	6.75%	6.75%	6.75%	
■ ADC - \$					
Annual Cost	\$1,298	\$1,337	\$1,203	\$1,184	
UAAL Amortization	810	835	656	676	
• Total ADC	2,108	2,172	1,859	1,860	
■ Projected Payroll ¹²	14,688	15,129	16,853	17,359	
■ ADC - %					
Annual Cost	8.8%	8.8%	7.1%	6.8%	
UAAL Amortization	5.5%	5.5%	3.9%	3.9%	
• Total ADC%	14.4%	14.4%	11.0%	10.7%	
■ UAAL Amortization Years	20	19	18	17	

^{11 1-}year lag period between valuation date and first fiscal year ADC.
12 For 2020/21, reported 2018/19 PERSable payroll projected 2 years using the aggregate payroll assumption of 3.00%.



17

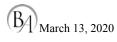


VALUATION RESULTS

Actuarially Determined Contribution (ADC) 2020/21 Fiscal Year

(Amounts in 000's)

Actuarially Determined Contribution	Cash Subsidy	Implicit Subsidy	Total Subsidy
■ Discount Rate	6.75%	6.75%	6.75%
■ ADC - \$			
 Annual Cost 	\$1,005	\$197	\$1,203
 UAAL Amortization 	<u>585</u>	<u>72</u>	<u>656</u>
Total ADC	1,590	269	1,859
■ Projected Payroll	16,853	16,853	16,853
■ ADC - %			
 Annual Cost 	6.0%	1.2%	7.1%
 UAAL Amortization 	3.5%	0.4%	3.9%
• Total ADC%	9.4%	1.6%	11.0%
■ UAAL Amortization Years	18	18	18





Benefit Payment Projection (Amounts in 000's)

Fiscal	(Cash Subsidy ¹		Total	
Year	Current	Current	Total	Implicit	Benefit
End	Actives	Retirees	Cash	Subsidy	Payments
2020	\$ 49	\$1,163	\$1,212	\$230	\$1,442
2021	129	1,137	1,266	216	1,482
2022	212	1,138	1,350	211	1,561
2023	291	1,151	1,442	210	1,652
2024	387	1,157	1,544	222	1,766
2025	488	1,163	1,651	230	1,881
2026	579	1,184	1,763	240	2,003
2027	681	1,208	1,889	277	2,166
2028	797	1,203	2,000	279	2,279
2029	912	1,217	2,129	324	2,453
PVB ¹⁴	16,486	15,694	32,180	4,620	36,800

¹³ Does not include estimated PEMHCA administrative fees.
14 Present Value of Benefits for all years, including those after the 10 years shown. The Present Value of Benefits is the discounted value of future expected Town benefit payments using the valuation discount rate.



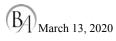
19



VALUATION RESULTS

Total Payments Projection (Amounts in 000's)

Fiscal Year	Cash Benefit	PEMHCA Admin	Total Cash	Implicit Subsidy	Total Benefit	Percent of
End	Payments	Expense	Payments	Payments	Payments	Payroll
2020	\$1,212	\$2	\$1,214	\$230	\$1,444	8.8%
2021	1,266	2	1,268	216	1,484	8.8%
2022	1,350	2	1,352	211	1,563	9.0%
2023	1,442	2	1,444	210	1,654	9.3%
2024	1,544	2	1,546	222	1,768	9.6%
2025	1,651	2	1,653	230	1,883	9.9%
2026	1,763	2	1,765	240	2,005	10.3%
2027	1,889	2	1,891	277	2,168	10.8%
2028	2,000	3	2,003	279	2,282	11.0%
2029	2,129	3	2,132	324	2,456	11.5%



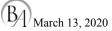


Contribution Projection - ADC Funding (Amounts in 000's)

Fiscal	Actuarially Determined Contribution				1	Town Con	tributions	16	
Year	Annual	UAAL		Projected	ADC	Cash	Implicit	Trust	Total
End ¹⁵	Cost	Amort	ADC	Payroll	% Pay	Subsidy	Subsidy	Funding	Contrib
2020	\$1,337	\$835	\$2,172	\$15,129	14.4%	\$1,214	\$230	\$728	\$2,172
2021	1,203	656	1,859	16,853	11.0%	1,268	216	375	1,859
2022	1,184	676	1,860	17,359	10.7%	1,352	211	297	1,860
2023	1,171	695	1,866	17,880	10.4%	1,444	210	212	1,866
2024	1,156	716	1,872	18,416	10.2%	1,546	222	104	1,872
2025	1,140	737	1,877	18,969	9.9%	1,653	230	0	1,883
2026	1,120	758	1,878	19,538	9.6%	1,765	240	0	2,005
2027	1,101	767	1,868	20,124	9.3%	1,891	277	0	2,168
2028	1,079	755	1,834	20,728	8.8%	2,003	279	0	2,282
2029	1,057	721	1,778	21,349	8.3%	2,132	324	0	2,456

 $^{^{15}\,}ADC$ for the fiscal year ending 6/30/20 was determined by the 6/30/17 actuarial valuation.

¹⁶ Projection assumes Town pays benefit payments and PEMHCA administrative fees directly from Town assets and does not request reimbursement from the OPEB trust.



21



VALUATION RESULTS

Funded Status Projection - ADC Funding

(Amounts in 000's)

Fiscal	Actuarial Value of Assets ¹⁷						Fu	nded Stat	tus
Year	BOY	Trust	CS	IS	Expected	EOY	BOY	BOY	BOY
End	AVA	Funding	Payments	Payments	Earnings	AVA	AAL	UAAL ¹⁸	Fund%
2020	\$18,341	\$728	\$(0)	\$(0)	\$1,190	\$20,259	\$27,017	\$8,676	68%
2021	20,259	375	(0)	(0)	1,315	21,949	28,568	8,309	71%
2022	21,949	297	(0)	(0)	1,425	23,671	30,155	8,206	73%
2023	23,671	212	(0)	(0)	1,536	25,419	31,749	8,078	75%
2024	25,419	104	(0)	(0)	1,648	27,171	33,342	7,923	76%
2025	27,171	0	(0)	(0)	1,762	28,933	34,909	7,738	78%
2026	28,933	0	(0)	(0)	1,875	30,808	36,446	7,513	79%
2027	30,808	0	(0)	(0)	1,995	32,803	37,940	7,132	81%
2028	32,803	0	(0)	(0)	2,124	34,927	39,346	6,543	83%
2029	34,927	0	(0)	(0)	2,261	37,188	40,707	5,780	86%

¹⁷ Projection assumes Town pays benefit payments and PEMHCA administrative fees directly from Town assets and does not request reimbursement from the OPEB trust. Expected earnings is shown net of investment and CERBT administrative

¹⁸ UAAL is amortized over 18 years for 2020/21 and decreases by 1 year for each year thereafter.





<u>CERBT Prefunding</u>¹⁹ CERBT Target Investment Allocation

■ CERBT Investment Strategy	CERBT #1	CERBT #2	CERBT #3
■ Global Equity	59%	40%	22%
■ Fixed Income	25%	43%	49%
■ TIPS	5%	5%	16%
■ REITs	8%	8%	8%
■ Commodities	3%	4%	<u>5%</u>
■ Total	100%	100%	100%
■ Long-Term Expected Real Return ²⁰	4.14%	3.54%	2.83%
■ Long-Term Inflation Assumption	2.75%	2.75%	2.75%
■ Assumed Investment Expenses	(0.05%)	(0.05%)	(0.05%)
■ Long-Term Expected Net Nominal Return	6.84%	6.24%	5.53%
■ Recommended Discount Rate	6.75%	6.25%	5.50%

¹⁹ Bartel Associates is not an investment advisor and cannot recommend specific OPEB trusts. CERBT funds are shown for illustrative purposes only. Other OPEB trust options are available.

²⁰ Using Bartel Associates' 2017 capital market assumptions which are based on a survey of various investment advisors' expected asset class returns.



23



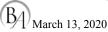
VALUATION RESULTS

CERBT Prefunding

(Amounts in 000's)

■ Investment Strategy	CERBT #1	CERBT #2	CERBT #3
■ Discount Rate	6.75%	6.25%	5.50%
■ Present Value of Benefits	\$36,800	\$39,792	\$45,057
■ Funded Status - 6/30/19			
 Actuarial Accrued Liability 	27,017	28,649	31,414
 Actuarial Value of Assets 	<u>18,341</u>	<u>18,341</u>	<u>18,341</u>
Unfunded AAL	8,676	10,308	13,073
• Funded Percentage	67.9%	64.0%	58.4%
■ ADC 2020/21			
• Annual Cost	1,203	1,322	1,528
• UAAL Amortization ²¹	<u>656</u>	<u>761</u>	922
• Total ADC	1,859	2,082	2,451
■ ADC% 2020/21	11.0%	12.4%	14.5%

²¹ Amortized as a level percentage of payroll over a 18-year period.





Implicit Subsidy Illustration

(Amounts in 000's)

	Pay-As-You-Go Cost			Tow	n Contrib	ution
2020/21	Actives	OPEB	Total	Actives	OPEB ²²	Total
■ Before Implicit Subsidy						
• Cash Subsidy ²³	\$2,000	\$1,268	\$3,268	\$2,000	\$1,590	\$3,590
 Implicit Subsidy 	0	0	0	0	0	0
• Total	2,000	1,268	3,268	2,000	1,590	3,590
■ After Implicit Subsidy						
 Cash Subsidy 	2,000	1,268	3,268	2,000	1,590	3,590
• Implicit Subsidy ²⁴	(216)	216	0	<u>(216)</u>	269	53
• Total	1,784	1,484	3,268	1,784	1,859	3,643
■ Change						
 Cash Subsidy 	0	0	0	0	0	0
 Implicit Subsidy 	(216)	<u>216</u>	<u>0</u>	(216)	<u>269</u>	<u>53</u>
• Total	(216)	216	0	(216)	269	53

²² The Town contribution is shown as the ADC for purposes of this illustration.

²³ Estimate of Town's active employee cash subsidy.

²⁴ The Town's active premium pay-as-you go-cost is offset by the estimated retiree implicit subsidy pay-as-you-go cost.







ACTUARIAL CERTIFICATION

This report presents the Town of Los Gatos Retiree Healthcare Plan ("Plan") June 30, 2019 actuarial valuation. The purpose of this valuation is to calculate the June 30, 2019 funded status and 2020/21 and 2021/22 Actuarially Determined Contributions and provide the basis for the Town's GASBS 75 accounting information report for the fiscal years ending on June 30, 2020 and June 30, 2021. The report may not be appropriate for other purposes.

Future valuations may differ significantly if the Plan's experience differs from the assumptions or if there are changes in Plan design, actuarial methods, or actuarial assumptions. The scope of the valuation did not include an analysis of this potential variation.

The valuation is based on Plan provisions, participant data, and asset information provided by the Town as summarized in this report, which we relied on but 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 completed using generally accepted actuarial principles and practices. As members of the American Academy of Actuaries meeting the Academy's Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

Joseph R. D'Onofrio, FSA, EA, FCA, MAAA

Assistant Vice President Bartel Associates, LLC

March 13, 2020

Katherine Moore, ASA, MAAA

Katherine Moore

Associate Actuary Bartel Associates, LLC

March 13, 2020





EXHIBITS

Topic	Page
Premiums	E-1
Participant Statistics	E-6
Actuarial Assumptions	E-18
Actuarial Methods	E-31
Definitions	E-33

B March 13, 2020

PREMIUMS

27

2018 PEMHCA Monthly PremiumsBay Area

	Non-	Medicare l	Eligible	Mo	edicare Eli	igible
Medical Plan	Single B	2-Party B/B	Family B/B/B	Single M	2-Party M/M	Family M/M/M
Anthem HMO Select	\$856.41	\$1,712.82	\$2,226.67	n/a	n/a	n/a
Anthem HMO Traditional	925.47	1,850.94	2,406.22	\$370.34	\$740.68	\$1,111.02
Blue Shield Access+	889.02	1,778.04	2,311.45	n/a	n/a	n/a
Health Net SmartCare	863.48	1,726.96	2,245.05	n/a	n/a	n/a
Kaiser Permanente	779.86	1,559.72	2,027.64	316.34	632.68	992.28
UnitedHealthcare	1,371.84	2,743.68	3,566.78	330.76	661.52	992.28
Western Health Advantage	792.56	1,585.12	2,060.66	n/a	n/a	n/a
PERS Choice	800.27	1,600.54	2,080.70	345.97	691.94	1,037.91
PERS Select	717.50	1,435.00	1,865.50	345.97	691.94	1,037.91
PERSCare	882.45	1,764.90	2,294.37	382.30	764.60	1,146.90
PORAC	734.00	1,540.00	1,970.00	487.00	970.00	1,551.00

BA March 13, 2020



PREMIUMS

2019 PEMHCA Monthly Premiums Bay Area

	Non-	Medicare I	Eligible	Me	edicare Eli	gible
Medical Plan	Single B	2-Party B/B	Family B/B/B	Single M	2-Party M/M	Family M/M/M
Anthem HMO Select	\$831.44	\$1,662.88	\$2,161.74	n/a	n/a	n/a
Anthem HMO Traditional	1,111.13	2,222.26	2,888.94	\$357.44	\$714.88	\$1,072.32
Blue Shield Access+	970.90	1,941.80	2,524.34	n/a	n/a	n/a
Health Net SmartCare	901.55	1,803.10	2,344.03	n/a	n/a	n/a
Kaiser Permanente	768.25	1,536.50	1,997.45	323.74	647.48	971.22
UnitedHealthcare	n/a	n/a	n/a	299.37	598.74	898.11
Western Health Advantage	767.01	1,534.02	1,994.23	n/a	n/a	n/a
PERS Choice	866.27	1,732.54	2,252.30	360.41	720.82	1,081.23
PERS Select	543.19	1,086.38	1,412.29	360.41	720.82	1,081.23
PERSCare	1,131.68	2,263.36	2,942.37	394.83	789.66	1,184.49
PORAC	774.00	1,623.00	2,076.00	513.00	1,022.00	1,635.00





PREMIUMS

E-2

2020 PEMHCA Monthly PremiumsRegion 1

	Non-	Medicare I	Eligible	Me	edicare Eli	gible
	Single	2-Party	Family	Single	2-Party	Family
Medical Plan	В	B/B	B/B/B	M	M/M	M/M/M
Anthem HMO Select	\$868.98	\$1,737.96	\$2,259.35	\$388.15	\$776.30	\$1,164.45
Anthem HMO Traditional	1,184.84	2,369.68	3,080.58	388.15	776.30	1,164.45
Blue Shield Access+	1,127.77	2,255.54	2,932.20	n/a	n/a	n/a
Blue Shield Trio	833.00	1,666.00	2,165.80	n/a	n/a	n/a
Health Net SmartCare	1,000.52	2,001.04	2,601.35	n/a	n/a	n/a
Kaiser Permanente	768.49	1,536.98	1,998.07	339.43	678.86	1,018.29
UnitedHealthcare	899.94	1,799.88	2,339.84	327.03	654.06	981.09
Western Health Advantage	731.96	1,463.92	1,903.10	n/a	n/a	n/a
Anthem EPO Del Norte	861.18	1,722.36	2,239.07	n/a	n/a	n/a
PERS Choice	861.18	1,722.36	2,239.07	351.39	702.78	1,054.17
PERS Select	520.29	1,040.58	1,352.75	351.39	702.78	1,054.17
PERSCare	1,133.14	2,266.28	2,946.16	384.78	769.56	1,154.34
PORAC	774.00	1,699.00	2,199.00	513.00	1,022.00	1,635.00





PREMIUMS

PEMHCA Monthly Premium Increases Bay Area/Region 1 - 2019 to 2020

	Actual Increases		Assumed I	ncreases
Medical Plan	Non-Medicare	Medicare	Non-Medicare	Medicare
Anthem HMO Select	4.5%	n/a	7.5%	n/a
Anthem HMO Traditional	6.6%	8.6%	7.5%	6.5%
Blue Shield Access+	16.2%	n/a	7.5%	n/a
Blue Shield Trio	n/a	n/a	n/a	n/a
Health Net SmartCare	11.0%	n/a	7.5%	n/a
Kaiser Permanente	0.0%	4.8%	7.5%	6.5%
UnitedHealthcare	n/a	9.2%	7.5%	6.5%
Western Health Advantage	(4.6%)	n/a	7.5%	n/a
Anthem EPO Del Norte	n/a	n/a	n/a	n/a
PERS Choice	(0.6%)	(2.5%)	7.5%	6.5%
PERS Select	(4.2%)	(2.5%)	7.5%	6.5%
PERSCare	0.1%	(2.5%)	7.5%	6.5%
PORAC (single)	0.0%	0.0%	7.5%	6.5%







PREMIUMS

PEMHCA Monthly Premium Increases Bay Area/Region 1 - 2018 to 2020

	Actual Increases		Assumed I	ncreases
Medical Plan	Non-Medicare	Medicare	Non-Medicare	Medicare
Anthem HMO Select	1.5%	n/a	15.6%	n/a
Anthem HMO Traditional	28.0%	4.8%	15.6%	13.4%
Blue Shield Access+	26.9%	n/a	15.6%	n/a
Blue Shield Trio	n/a	n/a	n/a	n/a
Health Net SmartCare	15.9%	n/a	15.6%	n/a
Kaiser Permanente	(1.5%)	7.3%	15.6%	13.4%
UnitedHealthcare	(34.4%)	(1.1%)	15.6%	13.4%
Western Health Advantage	(7.6%)	n/a	15.6%	n/a
Anthem EPO Del Norte	n/a	n/a	n/a	n/a
PERS Choice	(7.6%)	1.6%	15.6%	13.4%
PERS Select	(27.5%)	1.6%	15.6%	13.4%
PERSCare	28.4%	0.6%	15.6%	13.4%
PORAC (single)	5.4%	5.3%	15.6%	13.4%





Medical Plan Participation Miscellaneous Non-Waived Participants

	Ju	ine 30, 201	17	June 30, 2019			
		Retirees			Reti	rees	
Medical Plan	Actives	< 65	≥65	Actives	< 65	≥ 65	
Anthem HMO Select	13%	8%	0%	15%	13%	1%	
Anthem HMO Traditional	8%	0%	0%	3%	4%	0%	
Blue Shield Access+	3%	11%	0%	0%	0%	0%	
Health Net SmartCare	3%	8%	0%	1%	0%	0%	
Kaiser Permanente	57%	31%	27%	63%	42%	30%	
UnitedHealthcare	0%	0%	17%	0%	0%	16%	
Western Health Advantage	n/a	n/a	n/a	0%	0%	0%	
PERS Choice	12%	34%	33%	17%	33%	30%	
PERS Select	2%	0%	0%	1%	4%	0%	
PERSCare	2%	8%	23%	0%	4%	23%	
Total	100%	100%	100%	100%	100%	100%	





PARTICIPANT STATISTICS

E-6

Medical Plan Participation Safety Non-Waived Participants

	Jı	ine 30, 201	17	Jı	ine 30, 201	19
		Retirees			Reti	rees
Medical Plan	Actives	< 65	≥65	Actives	< 65	≥ 65
Anthem HMO Select	17%	11%	0%	10%	10%	0%
Anthem HMO Traditional	0%	0%	0%	0%	0%	7%
Blue Shield Access+	0%	5%	0%	0%	0%	0%
Health Net SmartCare	0%	0%	0%	0%	0%	0%
Kaiser Permanente	48%	21%	23%	57%	33%	20%
UnitedHealthcare	0%	0%	8%	0%	0%	0%
Western Health Advantage	n/a	n/a	n/a	0%	0%	0%
PERS Choice	4%	26%	23%	3%	24%	20%
PERS Select	0%	0%	0%	0%	0%	7%
PERSCare	0%	0%	8%	0%	0%	13%
PORAC	31%	37%	38%	30%	33%	33%
Total	100%	100%	100%	100%	100%	100%





Active Medical Coverage Miscellaneous

Medical Plan	Single	2-Party	Family	Cash	Total
Anthem HMO Select	3	2	7		12
Anthem HMO Traditional	2		1		3
Blue Shield Access+					0
Health Net SmartCare			1		1
Kaiser Permanente	26	9	20		55
UnitedHealthcare					0
Western Health Advantage					0
PERS Choice	6	4	5		15
PERS Select			1		1
PERSCare					0
Waived				24	24
Total	37	15	35	24	111
Election %	43%	17%	40%		
Waived %				22%	



March 13, 2020

E-8



PARTICIPANT STATISTICS

Active Medical Coverage Safety

Medical Plan	Single	2-Party	Family	Cash	Total
Anthem HMO Select			3		3
Anthem HMO Traditional					0
Blue Shield Access+					0
Health Net SmartCare					0
Kaiser Permanente	5	3	9		17
UnitedHealthcare					0
Western Health Advantage					0
PERS Choice	1				1
PERS Select					0
PERSCare					0
PORAC		2	7		9
Waived				8	8
Total	6	5	19	8	38
Election %	20%	17%	63%		
Waived %				21%	





Retiree Medical Coverage Miscellaneous - Under Age 65

Medical Plan	Single	2-Party	Family	Waived	Total
Anthem HMO Select	2		1		3
Anthem HMO Traditional	1				1
Blue Shield Access+					0
Health Net SmartCare					0
Kaiser Permanente	5	4	1		10
UnitedHealthcare					0
Western Health Advantage					0
PERS Choice	4	4			8
PERS Select		1			1
PERSCare	1				1
Waived				5	5
Total	13	9	2	5	29
Election %	54%	38%	8%		
Waived %				17%	



March 13, 2020

E-10



PARTICIPANT STATISTICS

Retiree Medical Coverage Safety - Under Age 65

Medical Plan	Single	2-Party	Family	Waived	Total
Anthem HMO Select		1	1		2
Anthem HMO Traditional					0
Blue Shield Access+					0
Health Net SmartCare					0
Kaiser Permanente	4	2	1		7
UnitedHealthcare					0
Western Health Advantage					0
PERS Choice	3	2			5
PERS Select					0
PERSCare					0
PORAC	1	3	3		7
Waived				6	6
Total	8	8	5	6	27
Election %	38%	38%	24%		
Waived %				22%	





<u>Retiree Medical Coverage</u> Miscellaneous - Age 65 & Over

Medical Plan	Single	2-Party	Family	Waived	Total
Anthem HMO Select		1			1
Anthem HMO Traditional					0
Blue Shield Access+					0
Health Net SmartCare					0
Kaiser Permanente	15	6			21
UnitedHealthcare	5	6			11
Western Health Advantage					0
PERS Choice	11	10			21
PERS Select					0
PERSCare	8	8			16
Waived				28	28
Total	39	31	0	28	98
Election %	56%	44%	0%		
Waived %				29%	



March 13, 2020

E-12



PARTICIPANT STATISTICS

Retiree Medical Coverage Safety - Age 65 & Over

Medical Plan	Single	2-Party	Family	Waived	Total
Anthem HMO Select					0
Anthem HMO Traditional		1			1
Blue Shield Access+					0
Health Net SmartCare					0
Kaiser Permanente	2	1			3
UnitedHealthcare					0
Western Health Advantage					0
PERS Choice	3				3
PERS Select		1			1
PERSCare	1		1		2
PORAC	1	4			5
Waived				6	6
Total	7	7	1	6	21
Election %	47%	47%	6%		
Waived %				29%	





Actives by Age and Town Service Miscellaneous

		Town Service								
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total		
< 25	1	2						3		
25-29	2	10	2					14		
30-34		8	2					10		
35-39	2	6	2	1	1			12		
40-44	2	9	3	2	2	2		20		
45-49		5	3	2	2	1		13		
50-54	1	5	2	4	2		1	15		
55-59		4	4	1	5	1		15		
60-64	1	1			2		3	7		
≥ 65	_			1			1	2		
Total	9	50	18	11	14	4	5	111		







PARTICIPANT STATISTICS

Actives by Age and Town Service Safety

		Town Service							
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total	
< 25		1						1	
25-29	1	2						3	
30-34		4	1					5	
35-39		1	1	3				5	
40-44				2	1	2		5	
45-49		4	3		2	3		12	
50-54				1		2		3	
55-59					1	1		2	
60-64					1			1	
≥ 65		1						1	
Total	1	13	5	6	5	8	0	38	





Retiree Medical Coverage by Age Group Miscellaneous

Age	Single	2-Party	Family	Waived	Total
Under 50					0
50-54		1			1
55-59	2				2
60-64	11	8	2	5	26
65-69	10	9		3	22
70-74	13	12		8	33
75-79	9	7		7	23
80-84	3	2		3	8
85+	4	1		7	12
Total	52	40	2	33	127
	T	I		I	
Average Age	71.5	70.5	63.2	76.2	72.3
Election %	55%	43%	2%		
Waived %				26%	







PARTICIPANT STATISTICS

Retiree Medical Coverage by Age Group Safety

Age	Single	2-Party	Family	Waived	Total
Under 50	2		3	1	6
50-54	1	1	1	3	6
55-59	2	2	1		5
60-64	3	5		2	10
65-69	1	2	1	1	5
70-74	4	2		1	7
75-79		2		2	4
80-84	1	1		1	3
85+	1			1	2
Total	15	15	6	12	48
Average Age	65.5	66.8	52.4	66.7	64.6
Election %	42%	42%	16%		
Waived %				25%	





Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Valuation Date	 June 30, 2017 2018/19 and 2019/20 ADCs ADC calculated as of beginning of the year with interest to end of year 1-year lag period between valuation date and first fiscal year ADC 	 June 30, 2019 2020/21 and 2021/22 ADCs ADC calculated as of beginning of the year with interest to end of year 1-year lag period between valuation date and first fiscal year ADC
■ Funding Policy	 Prefund full ADC less cash and implicit subsidy benefit payments with CERBT #1 Benefit payments currently made from Town assets 	• Same
■ General Inflation	 2.75% annually Basis for aggregate payroll and discount rate assumptions	• Same





E-18

ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation			
■ Target Asset Allocation and	 2017 capital market assumptions 2017 CERBT #1 target asset allocation 	 2017 capital market assumptions 2019 CERBT #1 target asset allocation 			
Expected Long-Term Real Returns	CERBT #1 Mix Return Global Equity 57% 4.82% Fixed Income 27% 1.47% TIPS 5% 1.29% REITs 8% 3.76% Commodities 3% 0.84%	CERBT #1 Mix Return Global Equity 59% 4.82% Fixed Income 25% 1.47% TIPS 5% 1.29% REITs 8% 3.76% Commodities 3% 0.84%			



Assumption	June 30, 2017 Valua	tion	June 30, 2019 Valua	tion
■ Discount Rate	• 6.75%		• 6.75%	
	• 2017 capital market		• 2017 capital market	
	assumptions		assumptions	
	• 2.75% assumed inflation	on	• 2.75% assumed inflation	on
	• 4 bp investment expens	ses with	• 5 bp investment expens	ses with
	no administrative expe	nses	no administrative expe	nses
	• 50% confidence level		• 50% confidence level	
	Expected Real Return	4.08%	Expected Real Return	4.14%
	Assumed Inflation	2.75%	Assumed Inflation	2.75%
	Assumed Expenses	<u>(0.04%)</u>	Assumed Expenses	<u>(0.05%)</u>
	Expected Nominal Return	6.79%	Expected Nominal Return	6.84%
	Rounding Margin	<u>(0.04%)</u>	Rounding Margin	<u>(0.09%)</u>
	Discount Rate	6.75%	Discount Rate	6.75%
■ Aggregate	• 3.00% annually		• Same	
Payroll	• Inflation plus 0.25%			
Increases	• For Normal Cost calcu	lation		
	and UAAL amortization			





E-20

ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Merit Payroll Increases	 CalPERS 1997-2015 Experience Study Added to aggregate payroll increase assumption for Normal Cost calculation 	• Same
■ Administration Expenses	 CERBT - 0.06% of assets added to Normal Cost PEMHCA - 0.33% of retiree premium added to Normal Cost (2017/18 PEMHCA administrative fee) 	 CERBT - 0.05% of assets added to Normal Cost PEMHCA - 0.27% of retiree premium added to Normal Cost (2019/20 PEMHCA administrative fee)
■ CalPERS Service	 Total CalPERS service Used for CalPERS demographic assumptions 	• Same





Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ PPACA High Cost Plan Excise Tax	• 2% cash subsidy load	• Repealed 12/20/19
■ Medical Trend Basis	 Short-term healthcare trend was developed in consultation with Axene Health Partners' healthcare actuaries Long-term healthcare trend developed using Society of Actuaries' Getzen Model of Long-Run Medical Cost Trends 	• Same





ACTUARIAL ASSUMPTIONS

Assumption	June	30, 2017 Val	uation	June	30, 2019 Val	uation
■ Medical Trend		Increase from Prior Year			Increase from	Prior Year
	Year	Non-Medicare	Medicare	Year	Non-Medicare	<u>Medicare</u>
	2017	Premi	ums	2017	n/a	ì
	2018	Premi	ums	2018	n/a	ì
	2019	7.50%	6.50%	2019	Premi	ums
	2020	7.50%	6.50%	2020	Premi	ums
	2021	7.25%	6.30%	2021	7.25%	6.30%
	2022	7.00%	7.00% 6.10%		7.00%	6.10%
	2023	6.75%	5.90%	2023	6.75%	5.90%
	2024	6.50%	5.70%	2024	6.50%	5.70%
	2025	6.25%	5.50%	2025	6.25%	5.50%
	2026	6.00%	5.30%	2026	6.00%	5.30%
	2027	5.80%	5.15%	2027	5.80%	5.15%
	2028	5.60%	5.00%	2028	5.60%	5.00%
	2029	5.40%	4.85%	2029	5.40%	4.85%
	2030	5.20%	4.70%	2030	5.20%	4.70%
	2031-2035	5.05%	4.60%	2031-2035	5.05%	4.60%
	2036-2045	4.90%	4.50%	2036-2045	4.90%	4.50%
	2046-2055	4.75%	4.45%	2046-2055	4.75%	4.45%
	2056-2065	4.60%	4.40%	2056-2065	4.60%	4.40%
	2066-2075	4.30%	4.20%	2066-2075	4.30%	4.20%
	2076+	4.00%	4.00%	2076+	4.00%	4.00%





Assumption	June 30, 2017 Valuation					June 3	30, 2019	Valuati	ion
■ Medical Claims	• San	• Sample estimated monthly claims costs:							
Costs 2020		•	Re	egion 1 - 1	Non-Med	icare Elig	ible		
Calendar Year		Anther	n Select	•	m Trad		ccess+	HN Sn	nartCare
	<u>Age</u>	M	<u>F</u>	M	<u>F</u>	M	<u>F</u>	M	<u>F</u>
	25	\$322	\$564	\$429	\$751	\$375	\$657	\$360	\$631
	35	410	696	547	928	479	812	460	780
	45	586	854	781	1,139	684	997	656	957
	55	973	1,132	1,296	1,511	1,135	1,322	1,089	1,269
	60	1,227	1,287	1,635	1,716	1,431	1,502	1,374	1,442
	65	1,390	1,393	1,852	1,858	1,622	1,627	1,557	1,561
■ Medical Claims	• San	nple esti	mated m	onthly c	laims co	osts:			
Costs 2020		-	Re	egion 1 - 1	Non-Med	icare Elig	ible		
Calendar Year		Ka	iser	<u>U</u> .	HC_	PERS	Choice	PERS	Select
	<u>Age</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>
	25	\$281	\$492	\$337	\$591	\$252	\$471	\$175	\$341
	35	358	607	430	730	332	592	235	432
	45	512	745	614	896	495	738	359	545
	55	849	988	1,020	1,188	861	1,001	642	747
	60	1,071	1,122	1,286	1,350	1,105	1,149	831	862
	65	1,214	1,215	1,457	1,461	1,264	1,254	954	944







ACTUARIAL ASSUMPTIONS

Assumption	Jı	une 30, 2	2017 Va	luation			June 30, 2019 Valuation
■ Medical Claims	Sample estimated monthly claims costs:						
Costs 2020			<u>R</u>	egion 1 - 1	Non-N	Med	<u>icare Eligible</u>
Calendar Year		<u>PER</u>	.SCare	<u>PO</u> :	RAC		
	<u>Age</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>I</u>	E	
	25	\$326	\$596	\$308	\$5:	57	
	35	425	746	399	69	94	
	45	625			80	60	
	55	1,072	1,245	987	1,1:	54	
	60	1,369	1,424	1,256	1,3	17	
	65	1,560	1,550	1,429	1,4	31	
■ Mortality, Termination, Disability	 CalPERS 1997-2015 Experience Study Mortality Improvement Scale 2017 for postretirement mortality 			•	CalPERS 1997-2015 Experience Study Mortality Improvement Scale 2019		





Assumption	June 30, 2017 V	Valuation	June 30, 2019 Valuation
■ Service Retirement	• CalPERS 1997-20 Experience Study		• Same
	<u>CalPERS</u>	Misc	
	Hired $< 9/15/12$	2.5%@55	
	Hired $\ge 9/15/12$	2%@60	
	Hired $\ge 1/1/13$		
	➤ Classic Member	2%@60	
	➤ New Member	2%@62	
	<u>CalPERS</u>	<u>Safety</u>	
	Hired $< 1/1/13$	3%@50	
	Hired $\geq 1/1/13$	_	
	> Classic Member 3%@50		
	➤ New Member	2.7%@57	





ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Participation at Retirement	 Actives: Participating - 100% Waived - 90% Retirees: Participating - 100% Waived: < 65 - 20% elect at 65 ≥ 65 - 0% 	 Tier I Actives: Participating - 100% Waived - 80% Tier 2 Actives: Participating - 60% Waived: Agency service < 3 months - 60% Agency service ≥ 3 months - 40% Retirees: Participating - 100% Waived: 65 - 20% elect at 65 ≥ 65 - 0%





Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Medical Plan at Retirement	 Participating: Current plan election UnitedHealthcare when eligible for Medicare if Medicare eligible plan not available for current plan election Waived - Kaiser 	• Same
■ Marital Status at Retirement	 Actives: Married if currently elect 2-party or family coverage Waived - 80% married Retirees - based on spouse information if provided 	• Same





ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
Retiree Coverage Election at Retirement	 Covered - based on current coverage election Waived Single coverage if assumed not married 2-party coverage if assumed married 	• Same
■ Spouse Age	 Actives - males 3 years older than females Retirees - males 3 years older than females if spouse birth date not provided 	• Same





Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Spouse & Dependent Coverage at Retirement	 Surviving spouse coverage - 100% of married retirees elect CalPERS joint and survivor annuity Family coverage: Current actives: Misc - 10% until age 65 Safety - 25% until age 65 Current retirees Current coverage until 65 No coverage after age 65 	 Surviving spouse coverage - 100% of married retirees elect CalPERS joint and survivor annuity Family coverage: Current actives: Misc - 5% until age 65 Safety - 25% until age 65 Current retirees Current coverage until 65 No coverage after age 65
■ Medicare Eligibility	 100% eligible for Medicare at age 65 Medicare eligible retirees will elect Part B coverage 	• Same





E-30

ACTUARIAL METHODS

Method	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Cost Method	Entry Age NormalNormal Cost is a level percentage of payroll	• Same
■ Actuarial Value of Assets	 Investment gains and losses spread over a 5-year rolling period Not less than 80% nor more than 120% of market value 	• Same
Amortization Method	Level percent of payroll	• Same
■ Amortization Periods	 30-year fixed (closed) period for 2008/09 ARC 20-year fixed (closed) period for 6/30/18 projected UAAL for 2018/19 ADC 	 30-year fixed (closed) period for 2008/09 ARC 18-year fixed (closed) period for 6/30/20 projected UAAL for 2020/21 ADC





ACTUARIAL METHODS

Method	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Implicit Subsidy	• Implicit subsidy estimate included for non-Medicare eligible retirees	• Same
■ Projections	 Valuation Results - closed group, no new hires Projections: Simplified open group projection Total active pay increased in accordance with aggregate payroll assumption Normal cost percentage of 8.7% for new hires No additional retirees from new hires over the 10-year projection period 	 Valuation Results - closed group, no new hires Projections: Simplified open group projection Total active pay increased in accordance with aggregate payroll assumption Normal cost percentage of 1.6% for new hires²⁵ No additional retirees from new hires over the 10-year projection period

²⁵ Normal cost percentage of pay if all actives hired in the past 3 years received Tier 2 benefit.



March 13, 2020

E-32



DEFINITIONS

- Actuarial Obligations
- The Present Value of Benefits (PVB) is calculated as follows:
 - > Project future employer-provided retiree benefits for current retirees and current active employees (future retirees)
 - > Discount projected benefits to valuation date using the discount rate
 - Discount rate is the expected long-term net rate of return on assets for benefits projected to be paid from the OPEB trust and the expected long-term net rate of return on Town investments for benefits projected to be paid from Town assets
 - Allocate the PVB to past, current, and future working periods using the Entry Age Normal Cost Method
- Normal Cost (NC) is portion of the PVB allocated to one fiscal year
- Actuarial Accrued Liability (AAL) is the portion of the PVB allocated to prior Town service, that is, the accumulation of prior years' NCs
- Unfunded AAL (UAAL) is AAL less the Actuarial Value of Assets
- Actuarial Value of Assets (AVA) smooths market value of assets (MVA) volatility by spreading investment gains and losses over 5 years

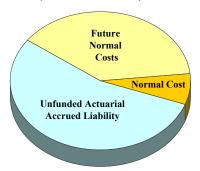




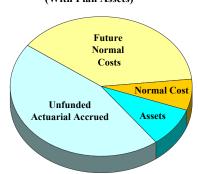
DEFINITIONS

Present Value of Benefits

Present Value of Benefits (Without Plan Assets)



Present Value of Benefits (With Plan Assets)









DEFINITIONS

- PayGo Cost
- Cash Subsidy is the Town's pay-as-you-go cash payments for its portion of retiree premiums
- Implicit Subsidy is the difference between the expected cost of retiree healthcare benefits, by age and gender, and retiree premiums, that is, it is the portion of retiree healthcare costs subsidized by active employee premiums
- Terminology Used in

 - Report
- AAL Actuarial Accrued Liability
- ADC Actuarially Determined Contribution
- AVA Actuarial Value of Assets
- GASBS 75 Governmental Accounting Standards Board Statement No. 75
- MVA Market Value of Assets
- NC Normal Cost
- OPEB Other (than pensions) Postemployment Benefits
- PVB Present Value of Benefits
- UAAL Unfunded Actuarial Accrued Liability



