

BARTEL SSOCIATES II.C

CITY OF VALLEJO RETIREE HEALTHCARE PLAN

June 30, 2012 GASB 45 Actuarial Valuation Final Results

Bartel Associates, LLC

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Revised May 10, 2013

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BENEFIT SUMMARY

■ Eligibility	• Retire directly from City under CalPERS (age 50 and 5 years of CalPERS service or disability)			
■ Retiree Medical Benefit	 Council, Executives, IBEW, IAFF Retirees ≥ 7/1/00 - \$300 per month, but not less than PEMHCA minimum IAFF Retirees < 7/1/00 (pre-PERS 3%@50) - 75% of the Kaiser Bay Area non-Medicare premium for coverage elected CAMP - 80% of Kaiser Bay Area non-Medicare premium for coverage elected VPOA - 100% of Kaiser Bay Area non-Medicare premium for coverage elected 			
■ PEMHCA Minimum	2012 \$112/month 2013 \$115/month 2014 \$119/month 2015+ Medical CPI increases • PEMHCA minimum projected to exceed \$300 per month in 2036 (24 years) assuming 4.50% medical CPI			





BENEFIT SUMMARY

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■ Surviving Spouse Benefit	 Retiree medical benefit continues to surviving spouse of retiree who elected CalPERS joint & survivor payment option Retiree benefit paid to spouse of active employee who died while eligible to retire and who receives CalPERS survivor benefit 			
■ PEMHCA Administration Fee	 0.25% of retiree premium for 2012/13 Paid by City and included with GASB 45 costs 			
■ Other OPEB	No City contribution for dental, vision, life insurance, or Medicare Part B			
■ Pay-As-You-Go Cost ('000s)	2012/13 2011/12 2010/11	\$3,244 City Estimate 3,027 City 3,652 CAFR		

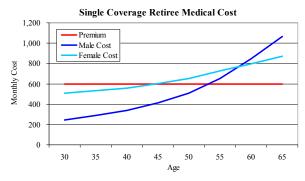




BENEFIT SUMMARY

■ Implied Subsidy

- Non-Medicare eligible retirees pay blended active and retiree medical premium rates rather than actual retiree medical costs
- Active employee premiums subsidize non-Medicare eligible retiree medical costs



- GASB 45 includes active "implied subsidy" with retiree cost
- GASB 45 does not require community rated plans to value implied subsidy
- PEMHCA is a community-rated plan for most employers
- Valuation does not include implied subsidy







BENEFIT SUMMARY

- Implied Subsidy (Continued)
- GASB 45 defers to Actuarial Standards of Practice (ASOP) for implied subsidy
- In April 2012, American Academy of Actuaries' Actuarial Standards Board released exposure draft of revised ASOP No. 6 regarding retiree healthcare obligations
- Revised ASOP would require implied subsidy be valued for community-rated plans
- Proposed final ASOP expected during 2013





DATA SUMMARY

Active Employees

Valuation Date	6/30/08	6/30/09	6/30/10	6/30/12
■ Employee Count				
 Miscellaneous 	288	286	272	274
• Safety	<u>200</u>	<u>183</u>	<u>166</u>	<u>170</u>
 Total Employees 	488	469	438	444
 Waived Coverage 	<u>42</u>	<u>46</u>	<u>_64</u>	<u>74</u>
 Total Participating 	446	423	374	370
■ Total Miscellaneous				
 Average Age 	47.6	46.9	47.2	46.7
 Average City Service 	11.2	10.6	11.1	10.4
 Average Payroll 	\$74,928	\$74,345	\$71,342	\$72,098
• Total Payroll (000's)	21,579	21,263	19,405	19,755
■ Total Safety				
 Average Age 	41.8	41.6	42.6	42.1
 Average City Service 	13.8	13.7	14.9	14.5
 Average Payroll 	\$120,733	\$121,407	\$121,903	\$119,763
• Total Payroll (000's)	24,147	22,217	20,236	20,360
■ Total Payroll (000's)	45,726	43,480	39,641	40,115





DATA SUMMARY

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Retirees

Valuation Date	6/30/08	6/30/09	6/30/10	6/30/12
■ Retiree Count				
 Miscellaneous 	275	285	275	305
• Safety	<u>252</u>	<u>264</u>	<u>268</u>	<u>276</u>
 Total Retirees 	527	549	543	581
 Waived Coverage 	<u>62</u>	<u>72</u>	<u>56</u>	<u>87</u>
 Total Participating 	465	477	487	494
■ Total Miscellaneous				
Average Age	67.5	67.2	67.8	68.2
 Average Retirement Age - Service 	58.5	58.3	58.4	58.1
 Average Retirement Age - Disabled 	48.3	47.1	47.3	47.1
■ Total Safety				
Average Age	63.3	63.2	63.6	64.0
 Average Retirement Age - Service 	54.4	54.2	54.3	54.0
 Average Retirement Age - Disabled 	46.2	46.7	46.6	46.5





DATA SUMMARY

Participant Reconciliation

		Retirees			
Participants	Actives	Service	Disabled	Survivors	Total
■ June 30, 2010	438	328	156	59	543
• Terminations ¹	(24)	-	-	-	-
New Retirees & Survivors	(49)	43	5	1	49
Retiree Deaths with Survivor	-	(4)	(3)	7	
• Retiree Deaths without Survivor ²	-	(9)	(5)	(8)	(22)
New Hires	71	-	-	-	-
Adjustments	8	(2)	2	11	11
■ June 30, 2012	444	356	155	70	581

Active employees reported for the 6/30/10 valuation and not reported for the 6/30/12 valuation were assumed to be terminations and deaths before retirement.

² Retirees reported for the 6/30/10 valuation and not reported for the 6/30/12 valuation were assumed to be deaths without covered survivors.



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ASSUMPTIONS & METHODS HIGHLIGHTS

Assumption	June 30, 2010 Valuation	June 30, 2012 Valuation
■ Valuation Date	June 30, 20102010/11 & 2011/12 ARCs	June 30, 20122012/13 & 2013/14 ARCs
■ Funding Policy	• Pay-as-you-go funding	• Same
■ Discount Rate	• 4.50% - Not prefunded, assets in City's investment fund	• 4.00% - Not prefunded, assets in City's investment fund
■ Fixed Dollar Cap Increase	0%Cap not less than PEMHCA minimum	• Same
■ PEMHCA Minimum Increases	• 4.5% annually	• Same





ASSUMPTIONS & METHODS HIGHLIGHTS

Assumption	June 30, 2010 Val	luation	Ju	ine 30, 2012 Va	luation
■ Medical Trend	2010 Premium 2011 Premium 2012 7.75% 8.25% 8 2013 7.10% 7.50% 3 2014 6.45% 6.75% 6 2015 5.80% 6.00% 3 2016 5.15% 5.25% 3	Medicare HMO PPO ns	Fiscal Year Begin 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021+	Increase from Non-Medicare All Pla n/a n/a Premiu Premiu 8.5% 8.0% 7.5% 7.0% 6.5% 6.0% 5.5% 5.0%	Medicare ns ms
■ PEMHCA Premium Increases	• n/a	rese pren • 1.6%	PERS may be use rves to mitigate nium increases load on AAL remium gain	PEMHCA	





ASSUMPTIONS & METHODS HIGHLIGHTS

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Assumption	June 30, 2010 Valuation			June 30, 2012	2 Valuatio	n	
Assumption Service Retirement	• Cal	me 30, 201 PERS 199 perience S Misc 2.7%@55 34.4 58	7-2007 tudy <u>Fire</u>	Police 3%@50	CalPERS CalPERS Hire Age Hire < 1/1/13 Hire ≥ 1/1/13 Classic Member New Member CalPERS CalPERS Hire Age Hire < 1/1/13 Hire ≥ 1/1/13 Classic Member CalPERS Hire Age Hire < 1/1/13 Classic Member New Member CalPERS CalPERS CalPERS CalPERS CalPERS Hire Age Hire < 1/1/13 Hire ≥ 1/1/13	2 Valuatio Misc 35 2.7%@55 2.7%@55 2.5%@67 Fire 25 3%@50 2%@50 2.7%@57 Police 25 3%@50	58.1 58.1 59.4 ERA 54.6 56.9 n/a ERA 53.6
					Classic MemberNew Member	3%@50 2.7%@57	53.6 55.8

 $[\]overline{\ }^3$ Expected Retirement Ages for members $\geq 1/1/13$ based on CalPERS retirement assumptions for their AB 340 cost analysis.





ASSUMPTIONS & METHODS HIGHLIGHTS

Assumption	June 30, 2010 Valuation	June 30, 2012 Valuation		
■ Mortality, Termination, Disability	• CalPERS 1997-2007 Experience Study	 CalPERS 1997-2007 Experience Study Mortality improvement projection Scale AA: Age Male Female 1.8% 1.7% 0.5% 0.5% 1.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.7% 0.7%		
■ Participation at Retirement	 Actives: Covered - 100% Waived - 90% Retirees & Surviving Spouse: Covered - 100% Waived < 65 - 20% at 65 Waived ≥ 65 - 0% 	 Actives & Surviving Spouse: Covered - 100% Waived - 90% Retirees & Surviving Spouse: Covered - 100% Waived < 65 - 20% at 65 Waived ≥ 65 - 0% 		





ASSUMPTIONS & METHODS HIGHLIGHTS

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Assumption	June 30, 2010 Valuation	June 30, 2012 Valuation
■ Medicare Eligibility	<u>Hire</u> <u>Misc</u> <u>Safety</u> < 4/1/86 100% 95% ≥ 4/1/86 100% 100%	<u>Hire</u> <u>Misc</u> <u>Safety</u> < 4/1/86 100% 95% ≥ 4/1/86 100% 100%
	 5.4% of Safety retirees over 65 hired before 4/1/86 are not in Medicare per retiree data Hire date for retirees was estimated from CalPERS retirement date and service 	 3.5% of Safety retirees over 65 hired before 4/1/86 are not in Medicare per retiree data Hire date for retirees was estimated from CalPERS retirement date and service
■ Cost Method	Entry Age NormalNormal Cost is a level percentage of payroll	• Same
■ Amortization Method	 Level percentage of payroll 29-year fixed (closed) period for 2010/11 ARC 	 Level percentage of payroll 27-year fixed (closed) period for 2012/13 ARC





Actuarial Obligations (Amounts in 000's)

	<u>6/30/10</u> `	6/30/10 Valuation		Valuation
	Actual	Projected	Actual	Projected
Actuarial Obligations	6/30/10	6/30/12	6/30/12	6/30/13
■ Discount Rate	4.50%	4.50%	4.00%	4.00%
■ Present Value of Benefits				
• Actives	\$46,900	n/a	\$60,102	n/a
• Retirees	57,123	<u>n/a</u>	71,597	<u>n/a</u>
• Total	104,023	106,997	131,699	133,505
■ Actuarial Accrued Liability				
• Actives	24,929	n/a	35,031	n/a
 Retirees 	57,123	<u>n/a</u>	71,597	<u>n/a</u>
• Total	82,052	88,100	106,628	110,462
■ Actuarial Value of Assets	0	0	0	0
■ Unfunded AAL	82,052	88,100	106,628	110,462
■ Normal Cost	2,452	2,615	3,031	3,129
■ Normal Cost %Pay	6.0%	6.0%	7.6%	7.6%
■ Pay-As-You-Go Cost	3,102	3,503	3,394	3,630





RESULTS

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Actuarial Gains & Losses (Amounts in 000's)

Actuarial Gains & Losses	NC%	AAL
■ 6/30/10 Actual	6.0%	\$ 82,052
■ 6/30/12 Expected	6.0%	88,100
■ Experience Losses (Gains)		
 Actual versus expected premiums 	(0.2%)	(4,938)
• Premium gain retention (1/3 premium gain)	0.1%	1,646
 PEMHCA administration fee 	0.0%	(190)
• Demographic & other ⁴	(0.3%)	<u>(971)</u>
 Total experience losses (gains) 	(0.4%)	(4,453)
■ Assumption Changes		
 Projected mortality improvement 	0.2%	3,144
Medical trend	0.9%	11,867
 Preretirement survivor death benefit 	0.0%	172
 Discount rate 	<u>0.9%</u>	7,798
 Total assumption changes 	2.0%	22,981
■ Total Changes	1.6%	18,528
■ 6/30/12 Actual	7.6%	106,628

⁴ Includes the impact of expected versus actual average payroll for the normal cost percentage.

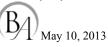




Annual Required Contributions (ARC) (Amounts in 000's)

	6/30/10 Valuation		6/30/12 V	⁷ aluation	
Annual Required Contribution	2010/11	2011/12	2012/13	2013/14	
■ Discount Rate	4.50%	4.50%	4.00%	4.00%	
■ ARC - \$					
 Normal Cost 	\$2,452	$$2,467^{5}$	3,031	\$3,129	
 UAAL Amortization 	<u>3,482</u>	<u>3,716</u>	<u>4,505</u>	<u>4,830</u>	
• Total ARC	5,934	6,183	7,536	7,959	
■ Projected Payroll	40,982	41,286	40,115	41,419	
■ ARC - %					
 Normal Cost 	6.0%	6.0%	7.6%	7.6%	
 UAAL Amortization 	8.5%	9.0%	<u>11.2%</u>	<u>11.7%</u>	
• Total ARC%	14.5%	15.0%	18.8%	19.2%	
■ UAAL Amortization Years	29	28	27	26	

⁵ Normal Cost calculated as level Normal Cost percentage multiplied by 2011/12 projected payroll provided by the City rather than \$2,615,000 normal cost from valuation projection assuming payroll increases 3.25%.



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RESULTS

Benefit Payment Projection (Amounts in 000's)

Fiscal	Current	Current	Total
Year	Actives	Retirees	Payments
2012/13	\$ 0	\$3,394	\$3,394 ⁶
2013/14	214	3,416	3,630
2014/15	392	3,548	3,940
2015/16	590	3,678	4,267
2016/17	794	3,776	4,571
2017/18	1,036	3,848	4,884
2018/19	1,291	3,912	5,204
2019/20	1,545	3,916	5,461
2020/21	1,807	3,907	5,714
2021/22	2,066	3,891	5,957

⁶ City estimate is \$3,244,000.





Estimated Net OPEB Obligation (NOO) Projection

Estimated Net OPEB Obligation	CAFR	Estimate	Estimate	Estimate
(Amounts in '000s)	2010/11	2011/12	2012/13	2013/14
■ Discount Rate	4.50%	4.50%	4.00%	4.00%
■ NOO at Beginning of Year	\$14,033	\$15,974	\$19,151	\$23,400
■ Annual OPEB Cost				
 Annual Required Contribution 	5,934	6,183	7,536	7,959
• Interest on NOO	631	719	766	936
 NOO Adjustment 	(972)	<u>(698)</u>	(809)	(1,023)
 Annual OPEB Cost 	5,593	6,204	7,493	7,872
■ Contributions ⁷				
 Benefit Payments Outside of Trust 	3,652	3,027	3,244	3,630
• Trust Funding	0	0	0	0
 Total Contributions 	3,652	3,027	3,244	3,630
■ NOO at End of Year	15,974	19,151	23,400	27,642
■ NOO Amortization Years	29	28	27	26
■ NOO Amortization Factor	n/a	22.88	23.67	22.87

⁷ Estimated contributions for years after 2011/12. The benefit payment estimate for 2012/13 was provided by the City. Estimated PEMHCA administration expenses are included with estimated cash benefit payments. Estimated items other than the ARC must be revised when actual contributions are known.



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RESULTS

No Pre-Funding Projection

4.00% Discount Rate

(Amounts in 000's)

Fiscal	Begin			City	Contribu	tion		ARC		UAAL
Year	Year			Benefit	Trust	City		% of	BOY	% of
End	NOO	ARC	AOC	Pmts	Funding	Contr	Payroll	Pay	UAAL	Pay
2013	\$19,151	\$7,536	\$7,493	\$3,244	\$0	\$3,244	\$40,115	18.8%	\$106,628	266%
2014	23,400	7,959	7,872	3,630	0	3,630	41,419	19.2%	110,462	267%
2015	27,642	8,410	8,264	3,940	0	3,940	42,765	19.7%	114,309	267%
2016	31,965	8,890	8,665	4,268	0	4,268	44,155	20.1%	118,094	267%
2017	36,363	9,401	9,077	4,572	0	4,572	45,590	20.6%	121,802	267%
2018	40,868	9,948	9,501	4,883	0	4,883	47,071	21.1%	125,457	267%
2019	45,486	10,536	9,936	5,203	0	5,203	48,601	21.7%	129,051	266%
2020	50,219	11,169	10,383	5,461	0	5,461	50,181	22.3%	132,577	264%
2021	55,141	11,859	10,846	5,714	0	5,714	51,812	22.9%	136,102	263%
2022	60,273	12,615	11,325	5,957	0	5,957	53,496	23.6%	139,633	261%

⁸ UAAL/Pay remains stable over the 10-year period because expected benefits payments exceed the normal cost, causing the UAAL to grow by less than the discount rate of 4% per year. The plan is mature with a retiree to active ratio of 131%.





Actuarial Obligations
June 30, 2012 - 4.00% Discount Rate

(Amounts in 000's)

Obligations	Council	Exec	CAMP	IBEW	IAFF	VPOA	Total
■ PVB							
• Actives	\$247	\$ 540	\$ 9,697	\$ 9,095	\$ 3,599	\$36,924	\$60,102
• Retirees	84	<u>1,102</u>	10,173	8,594	9,387	42,257	71,597
• Total	331	1,642	19,870	17,689	12,986	79,181	131,699
■ AAL							
• Actives	54	246	5,025	4,596	2,368	22,743	35,031
• Retirees	84	<u>1,102</u>	10,173	8,594	9,387	42,257	71,597
• Total	138	1,348	15,198	13,190	11,755	65,000	106,628
■ Normal Cost	32	37	538	526	148	1,750	3,031
■ PayGo	8	75	545	602	501	1,662	3,394





RESULTS

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Annual Required Contribution Fiscal Year 2011/12 - 4.50% Discount Rate

(Amounts in 000's)

ARC	Council	Exec	CAMP	IBEW	IAFF	VPOA	Total
■ ARC \$							
• Normal Cost	\$ 23	\$ 21	\$ 369	\$ 442	\$ 147	\$ 1,465	\$ 2,467
• UAAL Amort	_8	<u>49</u>	<u>552</u>	<u>532</u>	<u>468</u>	<u>2,106</u>	<u>3,716</u>
• Total ARC	31	70	921	974	615	3,571	6,183
■ Projected Pay	103	1,656	5,259	15,109	8,025	11,134	41,286
■ ARC %							
Normal Cost	22.3%	1.3%	7.0%	2.9%	1.8%	13.2%	6.0%
• UAAL Amort	8.2%	3.0%	10.5%	3.5%	<u>5.8%</u>	18.9%	9.0%
• Total ARC%	30.6%	4.3%	17.5%	6.4%	7.7%	32.1%	15.0%





<u>Annual Required Contribution</u> Fiscal Year 2012/13 - 4.00% Discount Rate

(Amounts in 000's)

ARC	Council	Exec	CAMP	IBEW	IAFF	VPOA	Total
■ ARC \$							
Normal Cost	\$32	\$37	\$ 538	\$ 526	\$148	\$1,750	\$3,031
UAAL Amort	<u>_6</u>	<u>57</u>	642	_557	<u>497</u>	<u>2,746</u>	<u>4,505</u>
• Total ARC	38	94	1,180	1,084	644	4,497	7,536
■ Projected Pay	65	1,845	4,546	13,685	8,833	11,141	40,115
■ ARC %							
Normal Cost	49.6%	2.0%	11.8%	3.8%	1.7%	15.7%	7.6%
UAAL Amort	9.0%	3.0%	<u>14.1%</u>	4.1%	<u>5.6%</u>	<u>24.7%</u>	<u>11.2%</u>
• Total ARC%	58.6%	5.1%	25.9%	7.9%	7.3%	40.4%	18.8%





RESULTS

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Annual Required Contribution Fiscal Year 2013/14 - 4.00% Discount Rate

(Amounts in 000's)

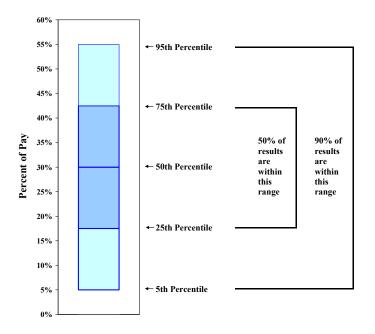
ARC	Council	Exec	CAMP	IBEW	IAFF	VPOA	Total
■ ARC \$							
Normal Cost	\$ 33	\$ 39	\$ 555	\$ 543	\$152	\$1,807	\$3,129
• UAAL Amort	_6	61	688	<u>597</u>	<u>532</u>	<u>2,944</u>	<u>4,830</u>
• Total ARC	40	100	1,244	1,141	685	4,751	7,959
■ Projected Pay	67	1,905	4,694	14,130	9,120	11,503	41,419
■ ARC %							
Normal Cost	49.6%	2.0%	11.8%	3.8%	1.7%	15.7%	7.6%
• UAAL Amort	9.3%	3.2%	<u>14.7%</u>	4.2%	<u>5.8%</u>	<u>25.6%</u>	<u>11.7%</u>
• Total ARC%	58.9%	5.2%	26.5%	8.1%	7.5%	41.3%	19.2%





BARTEL ASSOCIATES GASB 45 DATABASE

Bartel Associates GASB 45 OPEB Database Sample Percentile Graph







BARTEL ASSOCIATES GASB 45 DATABASE

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Bartel Associates GASB 45 OPEB Database Normal Cost & Annual Required Contribution 40% 35% 30% 25% 15% 10% 5%

	Miscellaneous		Safe	ty
	NC	ARC	NC	ARC
95th Percentile	19.8%	32.4%	21.6%	36.3%
75th Percentile	11.8%	19.6%	12.3%	22.6%
50th Percentile	5.0%	8.4%	5.5%	9.4%
25th Percentile	2.1%	3.3%	2.6%	4.2%
5th Percentile	1.0%	1.7%	1.4%	2.1%
Percent of Pay	5.6%	11.7%	9.2%	25.1%
Percentile	53%	<i>57%</i>	68%	80%

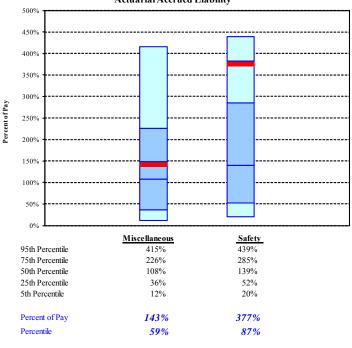
Discount Rate = 4.00%, Average Amortization Period = 27.0 Years





BARTEL ASSOCIATES GASB 45 DATABASE

Bartel Associates GASB 45 OPEB Database Actuarial Accrued Liability



Discount Rate = 4.00%

BA May 10, 2013

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ACTUARIAL CERTIFICATION

This report presents the City of Vallejo Retiree Healthcare Plan ("Plan") June 30, 2012 actuarial valuation. The purpose of this valuation is to:

- Determine the Governmental Accounting Standards Board Statement No. 45 June 30, 2012 Benefit Obligations,
- Determine the Plan's June 30, 2012 Funded Status, and
- Calculate the 2012/13 and 2013/14 Annual Required Contributions.

The report provides information intended for reporting under GASB 45, 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 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 principals and practices. Additionally, in our opinion, actuarial methods and assumptions comply with GASB 45. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

John E. Bartel, ASA, MAAA, FCA

President

Bartel Associates, LLC

May 10, 2013

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

Assistant Vice President

Bartel Associates, LLC May 10, 2013





EXHIBITS

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EXHIBITS

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PREMIUMS

2012 PEMHCA Monthly Premiums Bay Area

	Non	-Medicare	Eligible	Me	dicare Eli	gible
Plan	Single	2-Party	Family	Single	2-Party	Family
Blue Shield	\$711.10	\$1,422.20	\$1,848.86	\$337.99	\$675.98	\$1,013.97
Blue Shield NetValue	611.59	1,223.18	1,590.13	337.99	675.98	1,013.97
Kaiser	610.44	1,220.88	1,587.14	277.81	555.62	833.43
PERS Choice	574.15	1,148.30	1,492.79	383.44	766.88	1,150.32
PERS Select	487.39	974.78	1,267.21	383.44	766.88	1,150.32
PERSCare	1,029.23	2,058.46	2,676.00	432.43	864.86	1,297.29
PORAC	556.00	1,041.00	1,323.00	418.00	833.00	1,331.00





PREMIUMS

E-1

2013 PEMHCA Monthly Premiums Bay Area

	Non	-Medicare l	Eligible	Medicare Eligible			
Plan	Single	2-Party	Family	Single	2-Party	Family	
Blue Shield	\$784.63	\$1,569.26	\$2,040.04	\$261.32	\$522.64	\$783.96	
Blue Shield NetValue	670.21	1,340.42	1,742.55	261.32	522.64	783.96	
Kaiser	668.63	1,337.26	1,738.44	288.37	576.74	865.11	
PERS Choice	667.03	1,334.06	1,734.28	325.74	651.48	977.22	
PERS Select	487.20	974.40	1,266.72	325.74	651.48	977.22	
PERSCare	1,083.11	2,166.22	2,816.09	370.43	740.86	1,111.29	
PORAC	581.00	1,088.00	1,382.00	418.00	833.00	1,331.00	





PREMIUMS

PEMHCA Monthly Premium Increases Bay Area

	2012	-2013	2011	-2013
Medical Plan	Non Medicare Medicare		Non Medicare	Medicare
Blue Shield	10.3%	(22.7%)	16.2%	(22.7%)
Blue Shield NetValue	9.6%	(22.7%)	15.3%	(22.7%)
Kaiser	9.5%	3.8%	17.5%	2.2%
PERS Choice	16.2%	(15.0%)	18.4%	(13.3%)
PERS Select	0.0%	(15.0%)	(1.1%)	(13.3%)
PERSCare	5.2%	(14.3%)	21.2%	(14.6%)
PORAC	4.5%	0.0%	10.2%	0.0%





PARTICIPANT STATISTICS

E-3

Eligible Participants - June 30, 2012

Participants	Council	Exec	CAMP	IBEW	IAFF	VPOA	Total
■ Actives	6	10	43	217	75	93	444
 Average Age 	56.2	50.0	49.2	45.9	41.2	42.5	45.0
 Ave City Service 	4.2	10.1	12.2	10.2	13.6	15.1	11.9
• Ave CalPERS Svc	8.4	19.1	14.3	11.5	14.8	17.8	13.8
 Average Pay 	\$10,800	\$184,451	\$105,731	\$63,064	\$117,775	\$119,792	\$90,348
• Total Pay (000's)	65	1,845	4,546	13,685	8,833	11,141	40,115
■ Retirees ⁹							
 Retired 	3	21	64	175	39	54	356
 Disabled 	0	1	3	21	49	81	155
 Survivors 	0	_0	8	22	25	15	70
• Total	3	22	75	218	113	150	581
 Average Age 	69.1	68.0	69.7	67.9	65.4	62.3	66.2
 Ave Retire Age 							
> Service Retired	56.6	58.5	58.0	58.0	54.2	53.5	56.9
Disabled	n/a	47.0	55.7	46.2	49.3	44.8	46.6

⁹ 10 waived surviving spouses over age 65 placed without bargaining unit data (Misc/Police/Fire to IBEW/VPOA/IAFF).





Eligible Participants – June 30, 2010

Participants	Council	Exec	CAMP	IBEW	IAFF	VPOA	Total
■ Actives	7	7	41	219	67	97	438
 Average Age 	54.0	57.6	48.4	46.5	42.8	42.2	45.5
 Ave City Service 	4.3	18.0	11.5	11.1	14.9	14.7	12.5
• Ave CalPERS Svc	7.4	24.2	13.8	12.5	16.5	17.0	14.3
• Average Pay ¹⁰	\$14,700	\$175,954	\$107,316	\$64,180	\$118,065	\$123,100	\$90,504
• Total Pay (000's)	103	1,232	4,400	14,055	7,910	11,941	39,641
■ Retirees							
 Retired 	4	16	62	154	38	54	328
 Disabled 	0	0	3	22	51	80	156
 Survivors 	<u>0</u>	_0	_5	<u>16</u>	<u>25</u>	_13	_59
• Total	4	16	70	192	114	147	543
 Average Age 	72.2	65.3	68.1	67.6	65.7	61.9	65.7
 Ave Retire Age 							
> Service Retired	61.7	58.4	58.1	58.3	54.4	53.8	57.1
> Disabled	n/a	n/a	55.8	46.2	49.5	44.8	46.7

¹⁰ Average pay assumed for 7 actives with missing pay (1 CAMP & 6 VPOA).



May 10, 2013

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PARTICIPANT STATISTICS

Medical Plan Participation Non-Waived Participants

		Retirees	
Medical Plan	Actives	< 65	≥ 65
Blue Shield	13%	10%	2%
Blue Shield Net Value	2%	1%	0%
Kaiser	79%	66%	73%
PERS Choice	2%	12%	10%
PERS Select	0%	1%	0%
PERSCare	0%	2%	12%
PORAC	4%	8%	3%
Total	100%	100%	100%





Active Medical Coverage

Medical Plan	Single	2-Party	Family	Waived	Total
Blue Shield	10	8	31		49
Blue Shield NetValue		1	5		6
Kaiser	89	52	154		295
PERS Choice	2	1	3		6
PERS Select					0
PERSCare					0
PORAC	2	3	9		14
Waived				74	74
Total	103	65	202	74	444

Election %	28%	17%	55%		
Waived %				17%	





PARTICIPANT STATISTICS

E-7

Retiree Medical Coverage Under Age 65

	Single	2-Party	Family	Waived	Total
Blue Shield	10	6	9		25
Blue Shield NetValue	2		1		3
Kaiser	75	52	40		167
PERS Choice	12	16	3		31
PERS Select	1				1
PERSCare	4	1			5
PORAC	4	8	8		20
Waived				32	32
Total	108	83	61	32	284

Election %	43%	33%	24%		
Waived %				11%	





Retiree Medical Coverage Age 65 & Over

	Single	2-Party	Family	Waived	Total
Blue Shield	5				5
Blue Shield NetValue					0
Kaiser	84	88	4		176
PERS Choice	8	16	1		25
PERS Select					0
PERSCare	19	11			30
PORAC	2	4			6
Waived				55	55
Total	118	119	5	55	297

Election %	49%	49%	2%		
Waived %				19%	





PARTICIPANT STATISTICS

E-9

Actives by Age and City Service Miscellaneous

		City Service								
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total		
< 25	3							3		
25-29	6	10	2					18		
30-34	4	10	8	3				25		
35-39	4	14	2	7				27		
40-44	3	6	7	7	1	2	1	27		
45-49	5	13	11	16	5	8	4	62		
50-54	4	5	8	8	6	11	9	51		
55-59		4	4	15	6	7	2	38		
60-64		3	3	3	3	1	4	17		
≥ 65	2	3		1				6		
Total	31	68	45	60	21	29	20	274		





Actives by Age and City Service Safety

	City Service							
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total
< 25								
25-29	16		2					18
30-34	3	2	10	3				18
35-39			5	21				26
40-44		1	7	21	5	5		39
45-49				9	5	22	11	47
50-54				2	4	9	2	17
55-59						2	1	3
60-64							1	1
≥ 65					1			1
Total	19	3	24	56	15	38	15	170

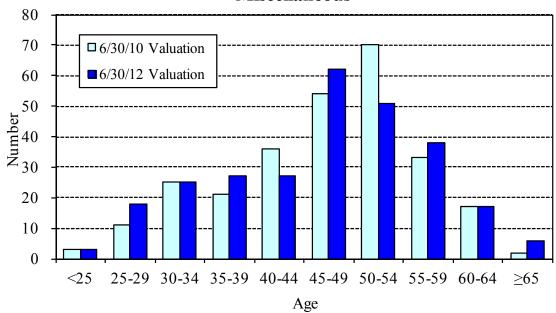






PARTICIPANT STATISTICS

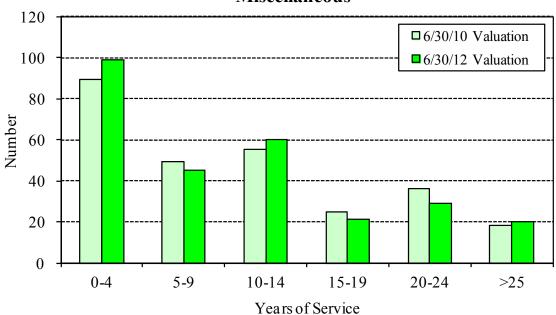
Active Age Distribution Miscellaneous







Active Service Distribution Miscellaneous



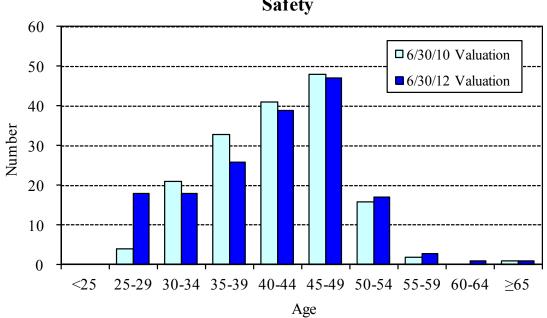


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PARTICIPANT STATISTICS

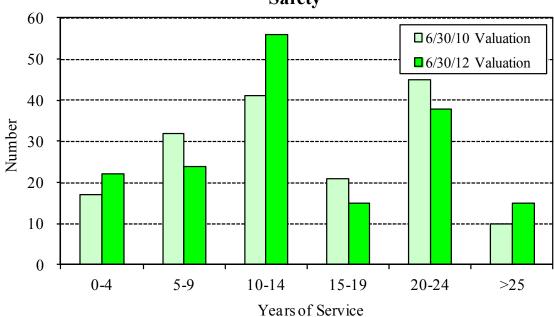
Active Age Distribution Safety







Active Service Distribution Safety







PARTICIPANT STATISTICS

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Retiree Healthcare Coverage by Age Group Miscellaneous

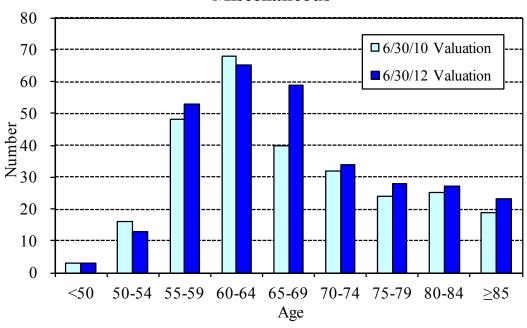
Age	Single	2-Party	Family	Waived	Total
Under 50	1	1		1	3
50-54	7	1		5	13
55-59	25	14	6	8	53
60-64	32	17	7	9	65
65-69	22	18	1	18	59
70-74	12	17		5	34
75-79	9	13		6	28
80-84	12	8		7	27
Over 85	10	7		6	23
Total	130	96	14	65	305

Average Age	67.6	69.6	60.6	69.0	68.2
< 65 Election %	58%	30%	12%	17%	
≥ 65 Election %	50%	49%	1%	25%	
Total Election %	54%	40%	6%	21%	





Retiree Age Distribution Miscellaneous





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PARTICIPANT STATISTICS

Retiree Healthcare Coverage by Age Group Safety

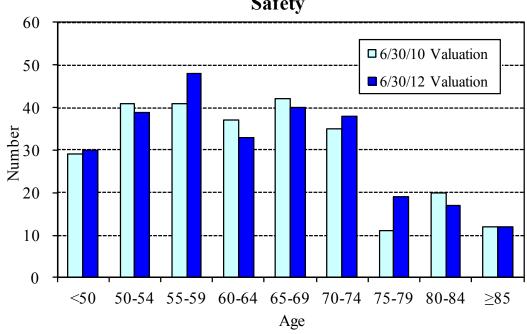
Age	Single	2-Party	Family	Waived	Total
Under 50	6	7	17		30
50-54	7	9	18	5	39
55-59	15	21	8	4	48
60-64	15	13	5		33
65-69	14	21	1	4	40
70-74	11	21	2	4	38
75-79	9	7	1	2	19
80-84	10	4		3	17
Over 85	9	3			12
Total	96	106	52	22	276

Average Age	68.0	65.1	53.5	66.7	64.0
< 65 Election %	31%	35%	34%	6%	
≥ 65 Election %	47%	50%	3%	10%	
Total Election %	38%	42%	20%	8%	





Retiree Age Distribution Safety







ACTUARIAL ASSUMPTIONS

Assumption	June 20, 2010 Valuation	June 20, 2012 Valuation
Assumption	June 30, 2010 Valuation	June 30, 2012 Valuation
■ Valuation Date	 June 30, 2010 2010/11 & 2011/12 ARCs ARC calculated as of beginning of the year with interest to end of year No lag period 	 June 30, 2012 2012/13 & 2013/14 ARCs ARC calculated as of beginning of the year with interest to end of year No lag period
■ Funding Policy	Pay-as-you-go funding	• Same
■ Discount Rate	• 4.50% - Not prefunded, assets in City's investment fund	• 4.00% - Not prefunded, assets in City's investment fund
■ General Inflation	 3% annually Basis for aggregate payroll and discount rate assumptions	• Same





Assumption	June 30, 2010 Valuation	June 30, 2012 Valuation
■ Aggregate Payroll Increases	 3.25% annually Inflation plus 0.25% For Normal Cost calculation and UAAL amortization 	• Same
■ Merit Payroll Increases	 CalPERS 1997-2007 Experience Study Added to aggregate payroll increase assumption for Normal Cost calculation 	• Same
■ Fixed Dollar Cap Increase	• 0% • Cap not less than PEMHCA minimum	• Same





ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2010 Valuation				Jı	ıne 30, 2012 V	aluation	
■ Medical Trend	Fiscal Year Begin 2010 2011 2012 2013 2014 2015 2016 2017+	Non-M HMO 7.75% 7.10% 6.45% 5.80% 5.15%	edicare <u>PPO</u> Prem Prem	<u>HMO</u>	8.50% 7.70% 6.90% 6.10% 5.30%	Fiscal Year Begin 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021+	Increase from Non-Medicare All P n/ n/ Premi 8.5% 8.0% 7.5% 7.0% 6.5% 6.0% 5.5% 5.0%	Medicare lans a a iums
■ PEMHCA Premium Increases	• n/a					rese prei • 1.60	PERS may be userves to mitigate mium increases load on AAL oremium gain	e PEMHCA





Assumption	June 30, 2010 Valuation	June 30, 2012 Valuation
■ PEMHCA Minimum Increases	• 4.5% annually	• Same
■ Mortality, Termination, Disability	CalPERS 1997-2007 Experience Study	 CalPERS 1997-2007 Experience Study Mortality improvement projection Scale AA. Sample annual longevity increases: Age Male Female 50 1.8% 1.7% 60 1.6% 0.5% 70 1.5% 0.5% 80 1.0% 0.7%





ACTUARIAL ASSUMPTIONS

Assumption	Jı	ine 30, 201	10 Valua	tion	June 30, 201	2 Valuatio	n
■ Service Retirement		PERS 199 perience S	tudy		CalPERS CalPERS Hire Age Hire < 1/1/13	Misc 35 2.7%@55	ERA ¹¹ 58.1
	PERS Hire	Misc 2.7%@55 34.4	Fire 3%@50 26.2	Police 3%@50 25.5	Hire ≥ 1/1/13 > Classic Member > New Member	2.7%@55 2.5%@67	
	ERA	58	55	54	<u>CalPERS</u> CalPERS Hire Age	Fire 25	<u>ERA</u>
					Hire $< 1/1/13$ Hire $\ge 1/1/13$	3%@50	54.6
					Classic MemberNew Member	2%@50 2.7%@57	56.9 n/a
					CalPERS CalPERS Hire Age Hire < 1/1/13	Police 25 3%@50	<u>ERA</u> 53.6
					Hire ≥ 1/1/13 > Classic Member > New Member	3%@50 2.7%@57	53.6 55.8

 $[\]overline{\ ^{11} \text{ Expected Retirement Ages for members} \geq 1/1/13 \text{ based on CalPERS retirement assumptions for their AB 340 cost analysis.}$





Assumption	June 30, 2010 Valuation	June 30, 2012 Valuation
■ CalPERS Service	 CalPERS service Used for CalPERS demographic tables which are based on total CalPERS service 	• Same
■ PEMHCA Admin Fee	• 0.37% of premium	• 0.25% of premium
■ Participation at Retirement	 Actives: Covered - 100% Waived - 90% Retirees & Surviving Spouse: Covered - 100% Waived < 65 - 20% at 65 Waived ≥ 65 - 0% 	 Actives & Surviving Spouse: Covered - 100% Waived - 90% Retirees & Surviving Spouse: Covered - 100% Waived < 65 - 20% at 65 Waived ≥ 65 - 0%





ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2010 Valuation	June 30, 2012 Valuation
■ Medical Plan at Retirement	 Actives: Covered - same as current plan election Waived - weighted current retiree non-Medicare eligible and Medicare eligible plan elections Retirees currently < 65: Coverage < 65 - Same as current plan election Retirees currently ≥ 65 - Same as current plan election 	• Same
Retiree Coverage Election at Retirement	 Covered – based on current coverage election Waived – 80% married and elect 2-party coverage 	• Same





Assumption	June 30, 2010 Valuation	June 30, 2012 Valuation
■ Spouse & Dependent Coverage at Retirement	 Spouse coverage - current coverage election Family coverage: Current actives: CAMP - 20% until 65 VPOA - 35% until 65 Others - n/a Current retirees - current coverage until 65 	 Same Family coverage data for retirees < 65: CAMP - 22% VPOA - 40%





ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2010 Valuation	June 30, 2012 Valuation
■ Medicare Eligibility	$\begin{array}{c cc} \underline{\text{Hire}} & \underline{\text{Misc}} & \underline{\text{Safety}} \\ < 4/1/86 & 100\% & 95\% \\ \ge 4/1/86 & 100\% & 100\% \end{array}$	Hire Misc Safety < 4/1/86 100% 95% ≥ 4/1/86 100% 100%
	 5.4% of Safety retirees over 65 hired before 4/1/86 are not in Medicare per retiree data Everyone eligible for Medicare will elect Part B coverage Hire date for retirees was estimated from CalPERS retirement date and service 	 3.5% of Safety retirees over 65 hired before 4/1/86 are not in Medicare per retiree data Everyone eligible for Medicare will elect Part B coverage Hire date for retirees was estimated from CalPERS retirement date and service
■ Spouse Age	 Actives - males 3 years older than females Retirees - males 3 years older than females if spouse birth date not provided 	• Same





ACTUARIAL METHODS

Method	June 30, 2012 Valuation
■ Cost Method	 Entry Age Normal Normal Cost is a level percentage of payroll City date of hire used for entry age
■ Amortization Method	• Level percent of payroll
■ Amortization Period for ARC & NOO	 30-year fixed (closed) period for 6/30/09 UAAL for 2009/10 ARC 27-year fixed (closed) period for 6/30/12 UAAL for 2012/13 ARC Amortization period decreases by one year each fiscal year When amortization period reaches 15 years, experience gains and losses will be amortized over fixed (closed) 15-year periods and plan and assumption changes will be amortized over fixed (closed) 20-year periods
■ PEMHCA Premiums	 Prorated from calendar year to fiscal year Calendar year premiums used for FY for 6/30/10 valuation





ACTUARIAL METHODS

Method	June 30, 2012 Valuation
■ Implied Subsidy	 Employer cost for allowing non-Medicare eligible retirees to participate at active rates Community rated plans are not required to value an implied subsidy Valuation does not include an implied subsidy Valuation study includes an estimate of implied subsidy under PEMHCA if later required by new ASOP 6
■ Future New Entrants	 Valuation Results – Closed group, no new hires for first year ARC Projections and second year ARCs: Actives – Total active pay increased in accordance with aggregate payroll assumption Retirees – no additional retirees from new hires over 10-year projection period
■ Rounding	Numbers in this report may not add to totals due to rounding





DEFINITIONS

■ GASB 45 Accrual Accounting

- Project future employer-provided benefit cash flow for current active employees and current retirees
- Discount projected cash flow to valuation date using discount rate and actuarial assumptions to determine present value of benefits (PVB)
- Discount rate is expected long-term return on plan assets
- Allocate PVB to past, current, and future periods
- Normal Cost is portion of PVB allocated to current fiscal year
- Actuarial cost method used for valuation is Entry Age Normal Cost method which determines Normal Cost as a level percent of payroll
- Actuarial Accrued Liability (AAL) is portion of PVB allocated to prior service with the employer
- Unfunded AAL (UAAL) is AAL less Plan Assets
- Assets must be in segregated and restricted trust to be considered Plan Assets for GASB 45

■ 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







DEFINITIONS

Present Value of Benefits

Present Value of Benefits (Without Plan Assets)



Present Value of Benefits (With Plan Assets)







DEFINITIONS

■ Annual Required Contribution (ARC)	 GASB 45 contribution is Normal Cost plus amortization of: Initial UAAL and AAL for plan, assumption, and method changes Experience gains and losses (difference between actual experience and that expected from assumptions) Contribution gains and losses (difference between ARC and actual contributions)
■ Net OPEB Obligation (NOO)	 NOO is accumulated amounts expensed but not funded Net OPEB Asset if amounts funded exceed those expensed
■ Annual OPEB Cost (AOC)	 Expense for current period including: ARC Interest on NOO Adjustment of NOO Adjustment of NOO prevents double counting of expense since ARCs include amortization of prior contribution gains and losses previously expensed





DEFINITIONS

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