

BARTEL ISSOCIATES, LLC

CITY OF VALLEJO RETIREE HEALTHCARE PLAN

June 30, 2012 GASB 45 Actuarial Valuation Cost Study Preliminary Results

Bartel Associates, LLC

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April 15, 2013

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BENEFIT SUMMARY

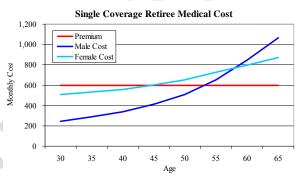
■ Eligibility	• Retire directly from City under CalPERS (age 50 and 5 years of CalPERS service or disability)
■ Current Retiree Medical Benefit	 Council, Executives, IBEW, IAFF Retirees ≥ 7/1/00 - \$300 per month, but not less than PEMHCA minimum IAFF Retirees < 7/1/00 (pre-PERS 3%@50) - 75% of the Kaiser 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
■ Alternative Retiree Medical Benefit Study	• Current and future retirees of all employee groups and bargaining units - \$300 per month, but not less than PEMHCA minimum





BENEFIT SUMMARY

- Implied Subsidy Study
- 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 Study (Continued)	 GASB 45 defers to Actuarial Standards of Practice (ASOP) for implied subsidy In April 2012, American Academy of Actuaries' Actuarial Standards Board (ASB) released exposure draft of revised ASOP No. 6 regarding retiree healthcare obligations. In April 2013, ASB issued a second exposure draft of revised ASOP No. 6 Revised ASOP would require implied subsidy be valued for community-rated plans Study includes an estimate of the implied subsidy if applicable to PEMHCA employers





ASSUMPTIONS

Assumption	June 30, 2012 Valuation
■ Valuation Date	• June 30, 2012
■ Valuation Assumptions	• Same as June 30, 2012 valuation
■ Claims Costs PEMHCA Implied Subsidy Study	 Claims costs used for the PEMHCA implied subsidy study are from the State of California's 6/30/12 OPEB valuation Disability retirements: > 30% Misc & 10% Safety assumed Medicare eligible - claims loaded 50% > 70% Misc & 90% Safety assumed non-Medicare eligible - claims loaded 15%
■ Prefunding Study	 6% discount rate beginning 2013/14 Contributions: 2012/13 - pay-as-you-go 2013/14 - ARC + \$5 million 2014/15+ - ARC





PEMHCA IMPLIED SUBSIDY

Estimated PEMHCA Implied Subsidy June 30, 2012 - 4.00% Discount Rate

(Amounts in 000's)

	Cash	Implied	
	Subsidy	Subsidy	Total
■ Present Value of Benefits	\$131,699	\$47,737	\$175,436
■ Funded Status			
 Actuarial Accrued Liability 	106,628	31,253	137,881
• Assets	0	0	0
Unfunded AAL	106,628	31,253	137,881
■ ARC 2012/13			
Normal Cost	3,031	1,427	4,458
• UAAL Amortization	<u>4,505</u>	<u>1,321</u>	<u>5,826</u>
• ARC	7,536	2,748	10,284
• ARC % of Payroll	18.8%	6.8%	25.6%





BENEFIT STUDY

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\$300 Benefit Study June 30, 2012 - 4.00% Discount Rate

	Current	\$300
■ PVB	~ "	7
• Actives	\$ 60,102	\$ 20,781
• Retirees	71,597	<u>28,338</u>
• Total	131,699	49,119
■ AAL	<i>\</i>	
• Actives	35,031	11,630
• Retirees	71,597	<u>28,338</u>
• Total	106,628	39,968
■ ARC 2012/13		
 Normal Cost 	3,031	1,121
 UAAL Amortization 	<u>4,505</u>	<u>1,689</u>
• ARC	7,536	2,810
 ARC % of Payroll 	18.8%	7.0%





BENEFIT STUDY

Actuarial Obligations - Current Plan 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	<u>84</u>	<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	1,102	10,173	8,594	9,387	42,257	71,597
• Total	138	1,348	15,198	13,190	11,755	65,000	106,628





BENEFIT STUDY

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Actuarial Obligations - \$300 Benefit June 30, 2012 - 4.00% Discount Rate

Obligations	Council	Exec	CAMP IBEW		IAFF	VPOA	Total
■ PVB							
• Actives	\$247	\$ 540	\$ 2,033	\$ 9,095	\$ 3,599	\$ 5,273	\$20,781
• Retirees	_84	<u>1,102</u>	3,461	8,594	<u>5,970</u>	9,128	28,338
• Total	331	1,642	5,494	17,689	9,569	14,401	49,119
■ AAL							
• Actives	54	246	1,092	4,596	2,368	3,278	11,630
• Retirees	84	<u>1,102</u>	<u>3,461</u>	8,594	<u>5,970</u>	9,128	<u>28,338</u>
• Total	138	1,348	4,553	13,190	8,338	12,406	39,968





BENEFIT STUDY

Annual Required Contribution - Current Plan

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%	5.6%	<u>24.7%</u>	<u>11.2%</u>
• Total ARC%	58.6%	5.1%	25.9%	7.9%	7.3%	40.4%	18.8%







BENEFIT STUDY

Annual Required Contribution - \$300 Benefit Fiscal Year 2012/13 - 4.00% Discount Rate

ARC	Council	Council Exec CAMP IBEW IAFF V		VPOA	Total		
■ ARC \$				1. 1			
• Normal Cost	\$32	\$37	\$ 119	\$ 526	\$ 148	\$ 260	\$1,121
• UAAL Amort	<u>6</u>	<u>57</u>	<u>192</u>	<u>557</u>	<u>352</u>	<u>524</u>	<u>1,689</u>
• Total ARC	38	94	311	1,084	500	784	2,810
■ Projected Pay	65	1,845	4,546	13,685	8,833	11,141	40,115
■ ARC %							
• Normal Cost	49.6%	2.0%	2.6%	3.8%	1.7%	2.3%	2.8%
UAAL Amort	9.0%	3.0%	4.2%	4.1%	4.0%	4.7%	4.2%
• Total ARC%	58.6%	5.1%	6.8%	7.9%	5.7%	7.0%	7.0%





PREFUNDING STUDY

Pre-Funding Sensitivity June 30, 2012 (Amounts in 000's)

	No Pre-Funding	Pre-Funding
■ Discount Rate	4.00%	$6.00\%^{1}$
■ Present Value of Benefits	\$131,699	\$95,398
■ Actuarial Accrued Liability	106,628	79,991
■ ARC 2013/14	$\lambda \lambda$	
Normal Cost	3,129	2,200
UAAL Amortization	<u>4,830</u>	<u>4,547</u>
• ARC	7,959	6,747
• ARC % of Payroll	19.2%	16.3%
■ ARC 2014/15		
Normal Cost	3,231	2,272
 UAAL Amortization 	<u>5,179</u>	<u>4,404</u>
• ARC	8,410	6,675
 ARC % of Payroll 	19.7%	15.6%

^{4.00%} for 2012/13 and 6.00% thereafter.



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PREFUNDING STUDY



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PREFUNDING STUDY

No Pre-Funding Projection

4.00% Discount Rate

(Amounts in 000's)

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







PREFUNDING STUDY

Full ARC Pre-Funding Projection²

6.00% Discount Rate (2013/14+)

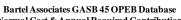
Fiscal	Begin			City Contribution		ARC		UAAL	BOY	
Year	Year	ADC	100	Benefit	Trust	City	% of	BOY	% of	Fund
End	NOO	ARC	AOC	Pmts	Funding	Contr	Pay	UAAL	Pay	%
2013	\$19,151	\$7,536	\$7,493	\$3,244	\$ 0	\$ 3,244	18.8%	\$106,628	266%	0%
2014	23,400	6,747	6,851	3,630	8,117	11,747	16.3%	81,860	198%	0%
2015	18,504	6,675	6,728	3,940	2,735	6,675	15.6%	77,119	180%	10%
2016	18,558	6,885	6,907	4,268	2,617	6,885	15.6%	77,227	175%	13%
2017	18,581	7,101	7,090	4,572	2,529	7,101	15.6%	77,196	169%	16%
2018	18,569	7,323	7,275	4,883	2,440	7,323	15.6%	77,015	164%	19%
2019	18,521	7,552	7,462	5,203	2,349	7,552	15.5%	76,667	158%	22%
2020	18,431	7,787	7,653	5,461	2,326	7,787	15.5%	76,142	152%	25%
2021	18,298	8,029	7,847	5,714	2,315	8,029	15.5%	75,428	146%	28%
2022	18,115	8,277	8,043	5,957	2,320	8,277	15.5%	74,508	139%	31%

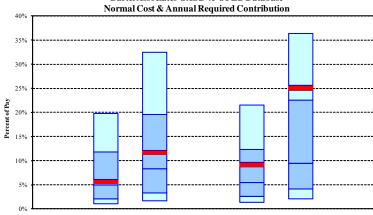
 $^{^2}$ Assumes City will make a contributions of ARC plus $\,\$5$ million for 2013/14.





City Total





	Miscellaneous		Safety	
	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%	57%	68%	80%

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



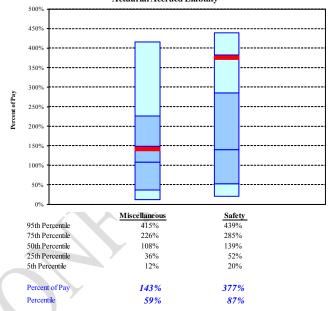
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BARTEL ASSOCIATES GASB 45 DATABASE

City Total

Bartel Associates GASB 45 OPEB Database Actuarial Accrued Liability



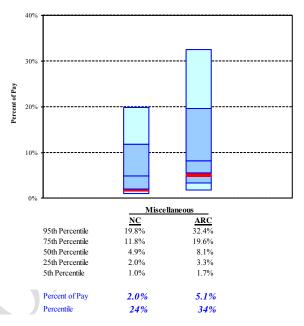
Discount Rate = 4.00%





Executives

Bartel Associates GASB 45 OPEB Database Normal Cost & Annual Required Contribution



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



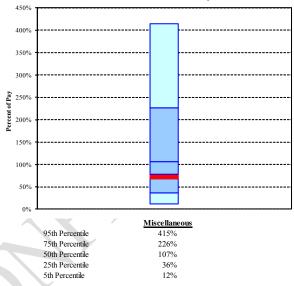




BARTEL ASSOCIATES GASB 45 DATABASE

Executives

Bartel Associates GASB 45 OPEB Database Actuarial Accrued Liability



Discount Rate = 4.00%

73%

39%

Percent of Pay

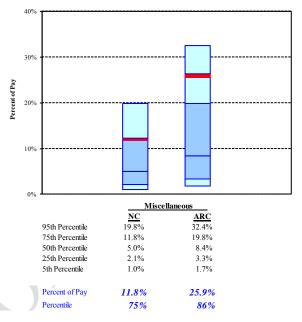
Percentile





CAMP

Bartel Associates GASB 45 OPEB Database Normal Cost & Annual Required Contribution



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



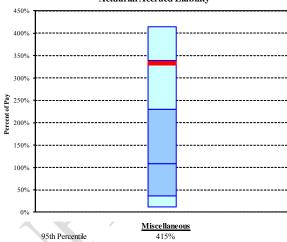
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BARTEL ASSOCIATES GASB 45 DATABASE

CAMP

Bartel Associates GASB 45 OPEB Database Actuarial Accrued Liability



 95th Percentile
 415%

 75th Percentile
 231%

 50th Percentile
 108%

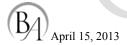
 25th Percentile
 36%

 5th Percentile
 12%

 Percent of Pay
 334%

 Percentile
 91%

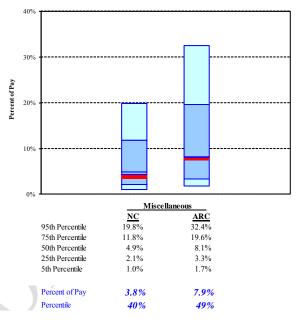
Discount Rate = 4.00%





IBEW

Bartel Associates GASB 45 OPEB Database Normal Cost & Annual Required Contribution



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



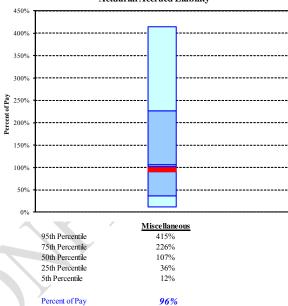
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BARTEL ASSOCIATES GASB 45 DATABASE

IBEW

Bartel Associates GASB 45 OPEB Database Actuarial Accrued Liability



Discount Rate = 4.00%

48%

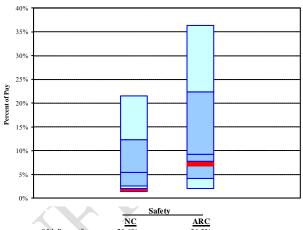
Percentile





IAFF

Bartel Associates GASB 45 OPEB Database Normal Cost & Annual Required Contribution



	NC	ARC
95th Percentile	21.6%	36.3%
75th Percentile	12.3%	22.4%
50th Percentile	5.5%	9.3%
25th Percentile	2.6%	4.2%
5th Percentile	1.4%	2.1%
Percent of Pay	1.7%	7.3%
Percentile	10%	10%

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



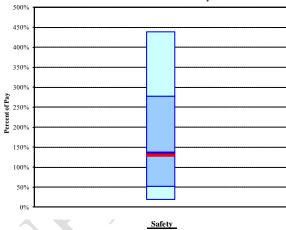
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BARTEL ASSOCIATES GASB 45 DATABASE

IAFF

Bartel Associates GASB 45 OPEB Database Actuarial Accrued Liability



	,	S-8-4-
		Safety
95th Percentile		439%
75th Percentile		278%
50th Percentile		138%
25th Percentile		52%
5th Percentile		0%
Percent of Pay		133%
Doroontilo		400/

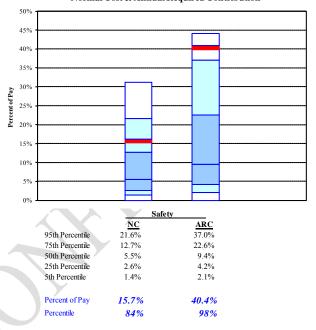
Discount Rate = 4.00%





VPOA

Bartel Associates GASB 45 OPEB Database Normal Cost & Annual Required Contribution



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



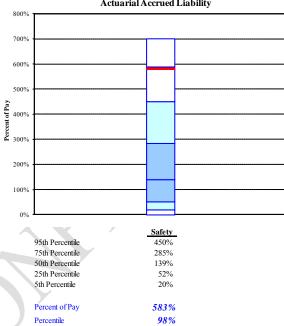
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BARTEL ASSOCIATES GASB 45 DATABASE

VPOA

Bartel Associates GASB 45 OPEB Database Actuarial Accrued Liability



Discount Rate = 4.00%



