

CITY OF NOVATO RETIREE HEALTHCARE PLAN

BARTEL ISSOCIATES, LLC

January 1, 2010 GASB 45 Actuarial Valuation Final Results

Presented by Prepared by

Presented by John E. Bartel, President

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Bartel Associates, LLC

February 2, 2012

AGENDA

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BENEFIT SUMMARY

■ Eligibility	 Retire directly from the City under CalPERS (age 50 and 5 years of CalPERS service or disability) Part time employees not eligible 				
■ Retiree Medical Benefit¹	• City contributes the PEMHCA minimum monthly amount: 2010 \$105.00 2011 108.00 2012 112.00				
Survivor Medical Benefit	Contribution continues to surviving spouse and dependents				
■ Dental, Vision, Life Insurance	• None				
■ Pay-As-You-Go Costs	<u>Year</u> <u>Payment</u> 2010/11 (est.) \$62,600 2009/10 44,400 2008/09 47,400				

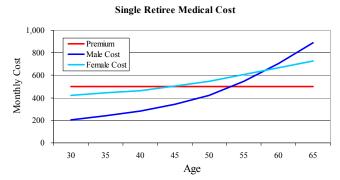
City contributes monthly amounts of \$150 to Unit A and of \$100 to Unit B employees for post-retirement health benefits. Unit H employee contributes \$75 per month. Contribution is made to individual accounts and therefore not included in valuation.





BENEFIT SUMMARY

- Implied Subsidy
- Non-Medicare eligible retirees pay active medical rates instead of actual cost
- Active employee premiums subsidize non-Medicare eligible retiree medical cost



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





Participant Statistics January 1, 2010

	Misc.	Safety	Total
■ Actives			
• Count	151	58	209
 Average age 	48.4	38.4	45.7
 Average City service 	10.4	10.0	10.3
 Average CalPERS service 	11.6	11.1	11.5
Average pay	\$ 68,311	\$ 97,552	\$ 76,426
• Total payroll (000's) ²	10,315	5,658	15,973
■ Retirees			
• Count	84	40	124
Average age	67.7	59.7	65.1
• Average retirement age ³	59.7	46.7	55.5

^{2009/10} reported payroll Excludes 2 surviving spouses





DATA SUMMARY

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Participant Statistics⁴ **January 1, 2008**

	Misc.	Safety	Total
■ Actives			
• Count	103	40	143
 Average age 	45.8	38.1	43.6
 Average City service 	8.2	8.2	8.2
 Average CalPERS service 	n/a	n/a	n/a
 Average pay 	n/a	n/a	n/a
• Total payroll (000's) ⁵	11,622	5,398	17,020
■ Retirees			
• Count	14	25	39
 Average age 	60.1	65.0	63.2
 Average retirement age 	n/a	n/a	n/a

Based on 1/1/08 valuation prepared by Steven Itelson. Data excludes waived participants. There were a total of 221 active employees.

Unclear whether total payroll provided includes all members.





ACTUARIAL ASSUMPTIONS HIGHLIGHTS

Assumption	January 1, 2008 Valuation	January 1, 2010 Valuation
■ Valuation Date	January 1, 20082008/09 & 2009/10 ARCs	January 1, 20102010/11 and 2011/12 ARCs
■ Discount Rate	• 5.0% Not pre-funded, assets invested in general fund	 4.50% Not pre-funded 7.25% ARC pre-funded with CalPERS CERBT (for sensitivity analysis)
■ Funding Policy	• Pay as you go	• Pay as you go
■ Mortality, Termination, Disability	 CalPERS 1997-2002 Experience Study Police Termination: 200% of CalPERS rates 	CalPERS 1997-2007 Experience Study





ACTUARIAL ASSUMPTIONS HIGHLIGHTS

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Assumption	January 1, 2008 Valuation	January 1, 2010 Valuation
■ Service Retirement	• CalPERS 1997-2002 Experience Study	• CalPERS 1997-2007 Experience Study
		$\begin{array}{c c} & \underline{\text{Level}} & \underline{\text{ERA}} \\ \text{Misc} & 2\%@55 & \approx 59.4 \\ \text{Safety} & 3\%@55 & \approx 56.0 \\ & & & & & & & & & & \\ \end{array}$
■ PEMHCA	Year Amo nt	Year Amount
Minimum	2008 \$97.00	2011 \$108.00
Increase	2009 101.00	2012 112.00
	2010+ 4.0%/yr	2013+ 4.5%/yr



ACTUARIAL ASSUMPTIONS HIGHLIGHTS

Assumption	January 1, 2008 Valuation	January 1, 2010 Valuation
■ Participation	• Actives: > Currently covered: 75%	• Actives: > Currently covered: 60%
	Currently waived: 0%Retirees:	Currently waived: 20%Retirees:
	➤ Currently covered: 100% ➤ Currently waived: 0%	Currently covered: 100%Currently waived: 20%waived retirees elect
		coverage at 65





ACTUARIAL METHODS

Method	January 1, 2008 Valuation	January 1, 2010 Valuation
■ Cost Method	• Projected Unit Credit	Entry Age Normal
■ Funding Policy	• Pay-As-You-Go	• Same
■ Plan Assets	• None	• Same
■ Amortization Method	• Level Percent of Payroll	• Same
■ Amortization Periods	• 30-Year Amortization of UAAL	 Initial UAAL – 30 year fixed (closed) period 28-year fixed (closed) period fresh start starting 2010/11 ARC



Actuarial Obligations 4.50% Discount Rate

(Amounts in 000's)

			Proj
Actuarial Obligations	1/1/2008	1/1/2010	6/30/2010
■ PVPB			
 Actives 	\$ n/a	\$ 2,695	
 Retirees 	<u>898</u>	<u>1,547</u>	
• Total	n/a	4,242	
■ AAL			
 Actives 	905	1,239	
 Retirees 	898	1,547	
• Total	1,803	2,786	2,889
■ Actuarial Assets			
■ Unfunded AAL	1,803	2,786	2,889
■ Normal Cost	117		152
■ Pay-As-You-Go Cost	51		63





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Actuarial Gain/Loss Analysis

4.50% Discount Rate

	AAL	Assets	UAAL
■ Actual @ 1/1/2008	\$ 1,803	\$ -	\$ 1,803
■ Expected @ 6/30/2010	2,220	279	1,941
Method and assumption changes			
 Entry Age Normal 	(233)		(233)
 New CalPERS assumptions 	80		80
• Discount Rate $5\% \rightarrow 4.5\%$	162		162
 Participation at retirement 	296		296
 PEMHCA Minimum trend rate 	178		178
■ Experience (gains)/losses			
 PEMHCA minimum increased 			
less than expected	(31)		(31)
 Contribution loss 		(279)	279
 Demographic & other 	<u>218</u>		<u>218</u>
■ Total changes	670	(279)	949
■ Projected @ 6/30/2010	2,890		2,890





Annual Required Contribution (ARC) 4.50% Discount Rate

(Amounts in 000's)

	1/1/2008 Valuation	1/1/2010 Valuation	
Annual Required Contribution	2008/09	2010/11 2011/12	
■ ARC - \$			
 Normal Cost 	\$ 117	\$ 152	\$ 157
• UAAL Amortization	<u>74</u>	<u>126</u>	<u>140</u>
• ARC	191	278	297
■ Projected Payroll	17,616	15,730	14,138
■ ARC - %			
 Normal Cost 	0.7%	1.0%	1.1%
 UAAL Amortization 	0.4%	0.8%	1.0%
• ARC	1.1%	1.8%	2.1%





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Estimated Net OPEB Obligation (NOO)

4.50% Discount Rate

	CAFR	CAFR	Estimated	Estimated
Estimated Net OPEB Obligation	2008/09	2009/10	2010/11	2011/12
■ NOO at Beginning of Year	\$ -	\$ 144	\$ 279	\$ 495
■ Annual OPEB Cost (AOC)				
 Annual Required Contribution 	191	191	278	297
• Interest on NOO	-	-	13	22
 Amortization of NOO 		<u>-</u>	<u>(12)</u>	(22)
Annual OPEB Cost	191	191	278	297
■ Contributions				
• Benefit Payments	47	55	63	74
Trust Pre-Funding	<u> </u>			
 Total Contribution 	47	55	63	74
■ NOO at End of Year	144	279	495	718





Amortization Bases

4.50% Discount Rate (Amounts in 000's)

	1/1/2008 Val	1/1/20	10 Val
	1/1/2008	6/30/2010	6/30/2011
■ Outstanding Balance			
Initial UAAL	\$ 1,803	n/a	n/a
■ 28 year Fresh Start	-	2,889	3,108





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Amortization Payments

4.50% Discount Rate

	1/1/2008 Val	1/1/2010 Val		
	1/1/2008	6/30/2010	6/30/2011	
■ Amortization Payment				
Initial UAAL	\$ 74	n/a	n/a	
■ 28 year Fresh Start	-	126	140	



Discount Rate Sensitivity (Amounts in 000's)

Discount Rate	4.50%	7.25%
■ PVPB on 1/1/2010	\$ 4,242	\$ 2,462
■ Funded Status on 1/1/2010		
• AAL	2,786	1,831
• Assets		<u>-</u>
Unfunded AAL	2,786	1,831
■ 2010/11 ARC		
 Normal Cost 	152	83
• UAAL Amortization ⁶	<u>126</u>	<u>116</u>
• Total ARC	278	199
• ARC as % of payroll	1.8%	1.3%

⁶ Unfunded AAL amortized over 28 years



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RESULTS

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No Pre-Funding (Pay-Go) Illustration

4.50% Discount Rate

(Amounts in 000's)

	Beginning		Annual	C	ontributi	on		ARC	Contrib
FYE	of Year		OPEB					as	as
June	Net OPEB		Cost	Benefit	Pre-	Total		% of	% of
30,	Obligation	ARC	(AOC)	Pmts	Funding	Contrib	Payroll	Payroll	Payroll
2011	\$ 279	\$ 278	\$ 279	\$ 63	\$ -	\$ 63	\$ 15,730	1.8%	0.4%
2012	495	297	297	71	-	71	14,138	2.1%	0.5%
2013	721	317	316	80	-	80	14,597	2.2%	0.5%
2014	957	339	336	89	-	89	15,072	2.2%	0.6%
2015	1,203	362	356	100	-	100	15,562	2.3%	0.6%
2016	1 460	388	378	110		110	16 067	2.4%	0.7%
	,			_	_	-	16,067		
2017	1,727	415	400	121	-	121	16,590	2.5%	0.7%
2018	2,006	445	423	133	-	133	17,129	2.6%	0.8%
2019	2,296	478	447	145	-	145	17,686	2.7%	0.8%
2020	2,598	514	472	157	-	157	18,260	2.8%	0.9%





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Pre-Funding (Full ARC Contribution) Illustration

7.25% Discount Rate

	Beginning		Annual	C	ontributi	on		ARC	Contrib
FYE	of Year		OPEB					as	as
June	Net OPEB		Cost	Benefit	Pre-	Total		% of	% of
30,	Obligation	ARC	(AOC)	Pmts	Funding	Contrib	Payroll	Payroll	Payroll
2011	\$ 279	\$ 199	\$ 202	\$ 63	\$ -	\$ 63	\$ 15,730	1.3%	0.4%
2012	419	206	210	71	135	206	14,138	1.5%	1.5%
2013	423	212	216	80	132	212	14,597	1.5%	1.5%
2014	426	219	222	89	130	219	15,072	1.5%	1.5%
2015	430	226	229	100	126	226	15,562	1.5%	1.5%
2016	432	234	235	110	124	234	16,067	1.5%	1.5%
2017	434	241	242	121	120	241	16,590	1.5%	1.5%
2018	435	249	249	133	116	249	17,129	1.5%	1.5%
2019	434	257	256	145	112	257	17,686	1.5%	1.5%
2020	433	266	263	157	109	266	18,260	1.5%	1.5%





Additional Pre-Funding (Full ARC Contribution) Illustration⁷

7.25% Discount Rate

(Amounts in 000's)

	Beginning		Annual	Contribution				ARC	Contrib
FYE	of Year		OPEB					as	as
June	Net OPEB		Cost	Benefit	Pre-	Total		% of	% of
30,	Obligation	ARC	(AOC)	Pmts	Funding	Contrib	Payroll	Payroll	Payroll
2011	\$ 279	\$ 199	\$ 202	\$ 63	\$ -	\$ 63	\$ 15,730	1.3%	0.4%
2012	419	206	210	71	1,000	1,071	14,138	1.5%	7.6%
2013	(443)	184	180	80	1,000	1,080	14,597	1.3%	7.4%
2014	(1,342)	132	122	89	43	132	15,072	0.9%	0.9%
2015	(1,352)	136	128	100	36	136	15,562	0.9%	0.9%
2016	(1,360)	140	135	110	30	140	16,067	0.9%	0.9%
2017	(1,365)	145	142	121	24	145	16,590	0.9%	0.9%
2018	(1,368)	150	150	133	17	150	17,129	0.9%	0.9%
2019	(1,367)	154	158	145	9	154	17,686	0.9%	0.9%
2020	(1,364)	159	167	157	2	159	18,260	0.9%	0.9%

⁷ End of year trust contributions of \$1 million assumed for 2011/12 and 2012/13.







RESULTS

Schedule of Funding Progress

4.50% Discount Rate

Actuarial Valuation Date	Actuarial Value of Assets (a)	Entry Age Actuarial Accrued Liability (b)	Unfunded Actuarial Accrued Liability (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as Percentage of Covered Payroll ((b-a)/c)
1/01/2008	\$ -	\$ 1,803	\$ 1,803	-	\$ 17,616	10.2%
1/01/2010	-	2,786	2,786	-	15,730	17.7%



Actuarial Obligations by Group

January 1, 2010 4.50% Discount Rate

(Amounts in 000's)

	Miscellaneous	Safety	Total
■ PVPB		-	
Actives	\$ 1,737	\$ 958	\$ 2,695
 Retirees 	1,025	522	1,547
• Total	2,762	1,480	4,242
■ AAL			
• Actives	864	375	1,239
 Retirees 	1,025	522	1,547
• Total	1,889	897	2,786
■ Actuarial Assets	<u>-</u> _		
■ Unfunded AAL	1,889	897	2,786
■ Normal Cost (2010/11)	101	52	152
■ Pay-As-You-Go Cost (2010/11)	47	15	63





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Annual Required Contribution (ARC) by Group 2010/11 & 2011/12 Fiscal Years 4.50% Discount Rate

(Amounts in 000's)

	20)10/11 AR	.C	2011/12 ARC		
	Misc	Safety	Total	Misc	Safety	Total
■ ARC - \$						
• Normal Cost	\$ 101	\$ 52	\$ 152	\$ 104	\$ 54	\$ 157
• UAAL Amort. 8	<u>85</u>	41	<u>126</u>	<u>95</u>	<u>45</u>	<u>140</u>
• ARC	186	93	278	199	99	297
■ Projected Payroll	9,864	5,866	15,730	8,417	5,722	14,138
■ ARC - %						
 Normal Cost 	1.0%	0.9%	1.0%	1.2%	0.9%	1.1%
• UAAL Amort.	0.9%	0.7%	0.8%	1.1%	0.8%	1.0%
• ARC	1.9%	1.6%	1.8%	2.4%	1.7%	2.1%

⁸ Allocated in proportion to the AAL

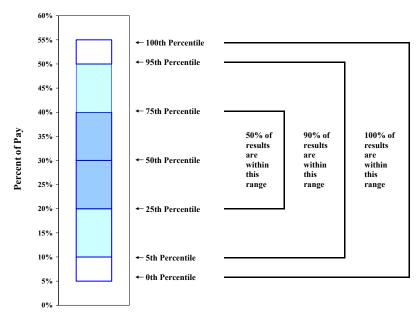




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BARTEL ASSOCIATES GASB 45 DATABASE

GASB 45 Retiree Medical Benefits Comparison Sample Percentile Graph



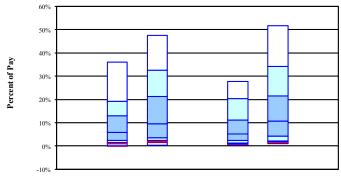




BARTEL ASSOCIATES GASB 45 DATABASE

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GASB 45 Retiree Medical Benefits Comparison Normal Cost & Annual Required Contribution



	Miscellaneous		Safety	
	NC	ARC	NC	ARC
95th Percentile	19.0%	32.5%	20.3%	34.1%
75th Percentile	12.9%	21.3%	11.0%	21.5%
50th Percentile	5.6%	9.4%	5.1%	10.6%
25th Percentile	2.2%	3.5%	2.4%	4.1%
5th Percentile	0.8%	1.5%	1.1%	2.0%
Percent of Pay	1.0%	1.9%	0.9%	1.6%
Percentile	7%	8%	2%	2%

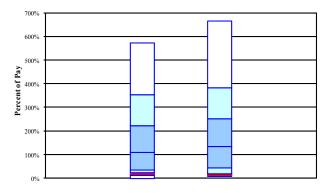
Discount Rate = 4.50%, Amortization Period = 28 Years





BARTEL ASSOCIATES GASB 45 DATABASE

GASB 45
Retiree Medical Benefits Comparison
Actuarial Accrued Liability



	Miscellaneous	Safety
95th Percentile	352%	382%
75th Percentile	221%	251%
50th Percentile	109%	132%
25th Percentile	34%	42%
5th Percentile	12%	19%
Percent of Pay	19%	15%
Percentile	14%	2%

Discount Rate = 4 50%



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OTHER ISSUES

- GASB Pension Accounting
 - Exposure Draft for pension accounting changes issued 7/8/2011:
 - > Usually the last public document issued before issuing final statement
 - > Similar views expected for OPEB
 - > Comment deadline 9/30/11
 - > Likely effective for 2013/14 fiscal year
 - Major issues:
 - > Unfunded liability on balance sheet
 - > Lower discount rate if funding less than ARC
 - > Immediate recognition of:
 - Service & interest Cost
 - o Benefit changes
 - o Inactive gains/losses & assumption changes
 - > Deferred recognition of:
 - Active gains/losses & assumption changes, over (future working lifetime) closed period
 - Asset gains/losses, over 5 years
 - Entry age normal cost method





ACTUARIAL CERTIFICATION

This report presents the City of Novato Healthcare Plan ("Plan") January 1, 2010 actuarial valuation. The purpose of this valuation is to:

- Determine the Governmental Accounting Standards Board Statement Nos. 43 and 45 January 1, 2010 Benefit Obligations,
- Determine the Plan's January 1, 2010 Funded Status, and
- Calculate the 2010/11 and 2011/12 Annual Required Contributions.

The report provides information intended for reporting under GASB 43 and 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, asset information, and employee data provided by the City and summarized in this report. We reviewed the data for reasonableness but did not perform an audit. The valuation was prepared using generally accepted actuarial principles and practices and the actuarial methods and assumptions summarized in this report.

This report presents the results of our valuation in accordance with our understanding of GASB 43 and 45. The undersigned are members of the American Academy of Actuaries and meet Academy Qualification Standards to render the actuarial results and opinions in this report.

Respectfully submitted,

DR R. Both

John E. Bartel, ASA, FCA, MAAA President Bartel Associates, LLC February 2, 2012 Bianca Lin

Bianca Lin, FSA, EA, MAAA Assistant Vice President and Actuary Bartel Associates, LLC February 2, 2012







EXHIBITS

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PREMIUMS

2010 PEMHCA Monthly PremiumsBay Area

	Non	-Medicare l	Eligible	Medicare Eligible			
Plan	Single	2-Party	Family	Single	2-Party	Family	
Blue Shield	\$577.33	\$1,154.66	\$1,501.06	\$299.53	\$599.06	\$898.59	
Blue Shield NetValue	500.35	1,000.70	1,300.91	299.53	599.06	898.59	
Kaiser	532.56	1,065.12	1,384.66	298.36	596.72	895.08	
PERS Choice	508.74	1,017.48	1,322.72	356.09	712.18	1,068.27	
PERS Select	474.93	949.86	1,234.82	356.09	712.18	1,068.27	
PERSCare	868.17	1,736.34	2,257.24	410.60	821.20	1,231.80	
PORAC	484.00	906.00	1,151.00	363.00	723.00	1,157.00	







PREMIUMS

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2011 PEMHCA Monthly Premiums Bay Area

	Non	-Medicare l	Eligible	Medicare Eligible			
Plan	Single	2-Party	Family	Single	2-Party	Family	
Blue Shield	\$675.51	\$1,351.02	\$1,756.33	\$337.88	\$675.76	\$1,013.64	
Blue Shield NetValue	581.24	1,162.48	1,511.22	337.88	675.76	1,013.64	
Kaiser	568.99	1,137.98	1,479.37	282.30	564.60	846.90	
PERS Choice	563.40	1,126.80	1,464.84	375.88	751.76	1,127.64	
PERS Select	492.68	985.36	1,280.97	375.88	751.76	1,127.64	
PERSCare	893.95	1,787.90	2,324.27	433.66	867.32	1,300.98	
PORAC	527.00	987.00	1,254.00	418.00	833.00	1,331.00	





PREMIUMS

2012 PEMHCA Monthly Premiums Bay Area

	Non-	-Medicare E	ligible	Medicare Eligible			
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

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Medical Plan Participation Non-waived participants

Plan	Actives	Retirees					
1 Iaii	Actives	<65	>65	Total			
Blue Shield	22%	11%	11%	11%			
Kaiser	57%	56%	56%	56%			
PERS Choice	17%	26%	11%	20%			
PERSCare	0%	0%	22%	9%			
PORAC	5%	7%	0%	4%			
Total	100%	100%	100%	100%			





DATA SUMMARY

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Active Medical Plan Coverage⁹

Medical Plan	Single	2-Party	Family	Waived	Total
Blue Shield	20	7	2	-	29
Kaiser	40	16	20	-	76
PERS Choice	12	7	3	-	22
PORAC	-	1	5	-	6
Waived	-	-	-	76	76
Total	72	31	30	76	209

⁹ All plans except one (Sacramento region) in Bay Area region





Retiree Medical Plan Coverage Under Age 65

Medical Plan	Region	Single	2-Party	Family	Waived	Total
Blue Shield	Bay Area	3	-	-	-	3
Kaiser	Bay Area	6	6	2	-	14
	Sacramento	1	-	-	-	1
PERS Choice	Bay Area	2	2	-	-	4
	North	-	-	-	-	-
	Out of State	3	-	-	-	3
PERSCare	Bay Area	-	-	-	-	-
	Out of State	-	-	-	-	-
PORAC		-	2	-	-	2
Waived		-	-	-	42	42
Total		15	10	2	42	69





DATA SUMMARY

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Retiree Medical Plan Coverage Over Age 65

Medical Plan	Region	Single	2-Party	Family	Waived	Total
Blue Shield	Bay Area	2	-	-	-	2
Kaiser	Bay Area	6	4	-	-	10
	Sacramento	-	-	-	-	-
PERS Choice	Bay Area	-	-	-	-	-
	North	-	1	-	-	1
	Out of State	-	1	-	-	1
PERSCare	Bay Area	-	1	-	-	1
	Out of State	3	-	-	-	3
PORAC		-	-	-	-	-
Waived		-	-	-	37	37
Total		11	7	-	37	55



Actives by Age and Service Miscellaneous

	City Service								
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total	
< 25	1	-	-	-	-	-	-	1	
25-29	-	5	5	-	-	-	-	10	
30-34	-	5	4	1	-	-	-	10	
35-39	-	2	6	3	-	-	-	11	
40-44	-	12	4	1	1	-	-	18	
45-49	2	8	9	7	2	1	1	30	
50-54	-	4	5	9	3	5	2	28	
55-59	1	4	6	3	3	3	4	24	
60-64	-	3	3	4	3	-	2	15	
≥ 65	-	-	-	1	-	2	1	4	
Total	4	43	42	29	12	11	10	151	





DATA SUMMARY

E-9

Actives by Age and Service Safety

	City Service								
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total	
< 25	-	4	-	-	-	-	-	4	
25-29	1	5	2	-	-	-	-	8	
30-34	1	4	8	-	-	-	-	13	
35-39	-	3	6	1	-	-	-	10	
40-44	-	1	3	1	1	-	-	6	
45-49	-	-	-	2	3	2	1	8	
50-54	-	-	2	-	2	1	4	9	
55-59	-	-	-	-	-	-	-	-	
60-64	-	-	-	-	-	-	-	-	
≥ 65	-	-	-	-	-	-	-	-	
Total	2	17	21	4	6	3	5	58	





Actives by Age and Service Total

		City Service								
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total		
< 25	1	4	-	-	-	-	-	5		
25-29	1	10	7	-	-	-	-	18		
30-34	1	9	12	1	-	-	-	23		
35-39	-	5	12	4	-	-	-	21		
40-44	_	13	7	2	2	-	-	24		
45-49	2	8	9	9	5	3	2	38		
50-54	_	4	7	9	5	6	6	37		
55-59	1	4	6	3	3	3	4	24		
60-64	_	3	3	4	3	-	2	15		
≥ 65	_	-	-	1	-	2	1	4		
Total	6	60	63	33	18	14	15	209		





DATA SUMMARY

E-11

Retiree Healthcare Coverage by Age Group Miscellaneous

Age	Single	2-Party	Family	Waived	Total
Under 50	-	-	ı	1	1
50-54	-	-	ı	5	5
55-59	7	3	-	6	16
60-64	5	3	1	7	16
65-69	6	3	ı	11	20
70-74	3	-	-	4	7
75-79	-	1	-	3	4
80-84	1	-	-	8	9
Over 85	1	-	-	5	6
Total	23	10	1	50	84

Average Age	65.7	64.5	62.5	69.4	67.7





Retiree Healthcare Coverage by Age Group Safety

Age	Single	2-Party	Family	Waived	Total
Under 50	-	-	-	6	6
50-54	2	1	ı	2	5
55-59	-	2	1	4	7
60-64	1	1	-	11	13
65-69	-	3	-	4	7
70-74	-	-	ı	1	1
75-79	-	-	-	1	1
80-84	-	-	-	-	-
Over 85	-	-	-	-	-
Total	3	7	1	29	40

Average Age	55.4	62.6	59.3	59.4	59.7







DATA SUMMARY

Retiree Healthcare Coverage by Age Group Total

Age	Single	2-Party	Family	Waived	Total
Under 50	-	-	ı	7	7
50-54	2	1	ı	7	10
55-59	7	5	1	10	23
60-64	6	4	1	18	29
65-69	6	6	ı	15	27
70-74	3	-	-	5	8
75-79	-	1	-	4	5
80-84	1	-	-	8	9
Over 85	1	-	-	5	6
Total	26	17	2	79	124

Average Age	64.5	63.7	60.9	65.7	65.1





ACTUARIAL ASSUMPTIONS

Assumption	January 1, 2008 Valuation	January 1, 2010 Valuation
■ Valuation Date	January 1, 20082008/09 & 2009/10 ARCs	January 1, 20102010/11 and 2011/12 ARCs
■ Discount Rate	• 5.0% Not pre-funded, assets invested in general fund	 4.50% Not pre-funded 7.25% ARC pre-funded with CalPERS CERBT (for sensitivity analysis)
■ Funding Policy	• Pay as you go	• Pay as you go
■ General Inflation	• 3.25%	• 3.0%
■ Aggregate Payroll Increases	• 3.5%	• 3.25%
■ Merit Pay Increases	• CalPERS 1997-2002 Experience Study	CalPERS 1997-2007 Experience Study





ACTUARIAL ASSUMPTIONS

E-15

Assumption	January 1, 2008 Valuation	January 1, 2010 Valuation
■ Future New Entrants	• None – Closed Group	• Same
■ PEMHCA Minimum Increase	<u>Year</u> <u>Amount</u> 2008 \$97.00 2009 101.00 2010+ 4.0%/yr	<u>Year</u> <u>Amount</u> 2011 \$108.00 2012 112.00 2013+ 4.5%/yr
Mortality, Termination, Disability	 CalPERS 1997-2002 Experience Study Police Termination: 200% of CalPERS rates 	CalPERS 1997-2007 Experience Study



ACTUARIAL ASSUMPTIONS

Assumption	January 1, 2008 Valuation	January 1, 2010 Valuation
■ Service Retirement	• CalPERS 1997-2002 Experience Study	• CalPERS 1997-2007 Experience Study
		$\begin{array}{c c} & \underline{\text{Level}} & \underline{\text{ERA}} \\ \text{Misc} & 2\%@55 & \approx 59.4 \\ \text{Safety} & 3\%@55 & \approx 56.8 \\ & & & & & & & & & & & \\ \end{array}$
■ CalPERS Service	• n/a	Actual CalPERS Service
■ Participation	 Actives: Currently covered: 75% Currently waived: 0% Retirees: Currently covered: 100% Currently waived: 0% 	 Actives: Currently covered: 60% Currently waived: 20% Retirees: Currently covered: 100% Currently waived: 20% waived retirees elect coverage at 65





ACTUARIAL ASSUMPTIONS

E-17

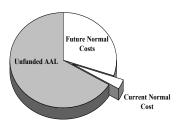
Assumption	January 1, 2008 Valuation	January 1, 2010 Valuation
■ Marital Status at Retirement	Currently Covered – Same as current election	Currently Covered – Same as current election
	• Currently Waived – n/a	• Currently Waived – 80% married
■ Spouse Age	 Current actives - Males 3 years older than females Current retirees - Males 3 years older than females if spouse birth date not available 	• Same
■ Surviving Spouse Participation	• 50%	• 100%



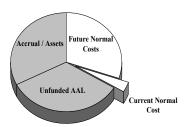
DEFINITIONS

Present Value of Projected Benefits (PVPB)

Without Assets



With Assets



■ PVPB - Present Value of all Projected Benefits

- Discounted value, at measurement date (valuation date) of all future expected benefit payments.
- Expected benefit payments based on various actuarial assumptions







DEFINITIONS

■ AAL – Actuarial Accrued Liability / Actuarial Obligation

- Discounted value at measurement date (valuation date) of benefits "earned" through measurement date based on actuarial cost method
- Portion of PVPB "earned" at measurement

■ NC - Normal Cost

- Value of benefits "earned" during current year
- Portion of PVPB allocated to current year

■ Actuarial Cost Method

- Determines how benefits are "earned" or allocated to each year of service
- Has no effect on PVPB
- Has significant effect on Actuarial Obligations and Normal Cost

■ Pay-As-You-Go Cost (PayGo)

- Cash Subsidy Actual cash benefit payments to retirees
- Implied Subsidy Difference between cost of retiree benefits and retiree premiums
- PayGo is the expected retiree benefit payments for the year while Normal Cost is the expense for benefits accrued by active employees during the year





GASB 45 SUMMARY

■ Accrual Accounting	 Project future employer-provided benefit cash flows Discount projected cash flows to determine present value of benefits Allocate present value of benefits (PVB) to past, current, and future periods Normal Cost is amount allocated to current period Actuarial Accrued Liability (AAL) is amount allocated to prior periods Unfunded AAL is AAL less plan assets pre-funded in a segregated and restricted trust
■ Annual Required Contribution (ARC)	 "Required contribution" for the current period including: Normal Cost Amortization of:
■ Annual OPEB Cost (AOC)	 Expense for the current period including: ARC Interest on NOO Adjustment of NOO





E-21

GASB 45 SUMMARY

■ Net OPEB Obligation (NOO)	• Accumulation of amounts expensed and not funded ("contribution losses") or amounts funded in excess of expense ("contribution gains")
■ NOO Adjustment	 NOO adjustment (amortization) prevents double counting of expense since future ARCs include amortizations of contribution gains and losses previously expensed GASB 45 approximate method: Use amortization period in ARC if one UAAL base Use experience gain/loss amortization period in ARC if multiple bases GASB Technical Bulletin 2008-1 exact method: Use actual ARC contribution gain/loss amortization NOO always equals amounts expensed less amounts funded Requires detailed recordkeeping

