

County of Marin Retiree Healthcare Plan



June 30, 2018 GASBS 75 Accounting Information As of Measurement Date June 30, 2017 Based on the July 1, 2017 Actuarial Valuation

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Bartel Associates, LLC

July 27, 2018

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Applicable Dates

Applicable Dates and Periods

Fiscal Year End	June 30, 2018
■ Reporting Date*	June 30, 2018
■ Measurement Date	June 30, 2017
■ Measurement Period	July 1, 2016 to
	June 30, 2017
■ Actuarial valuation date	July 1, 2017

* Employer's fiscal year end.

Update procedures were used to roll back the total OPEB liability from the valuation date (7/1/17) to the prior measurement date (6/30/16).



County of Marin

Note Disclosures

Plan Information

Fiscal Year End	June 30, 2018
■ Plan Type	Multiple Employer
■ OPEB Trust	Yes
■ Special Funding Situation	No
■ Nonemployer Contributing Entities	No

Expected Long-Term Rate of Return

	Target Allocation*	Expected
		Geometric
	CERBT Strategy 1	Real Rate of Return
■ Asset Class Component		
Global Equity	57%	4.82%
• Fixed Income	27%	1.47%
• TIPS	5%	1.29%
 Commodities 	3%	0.84%
• REITs	8%	3.76%
■ Assumed Long-Term Rate of Inflation		2.75%
■ Margin for Adverse Deviation		1.25%
■ Expected Long-Term Net Rate of Return, Rounded		5.50%

^{*} Policy target effective October 13, 2014



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Note Disclosures

Number of Employees Covered by the Benefit Terms

Measurement Date	June 30, 2017
■ Inactive employees receiving benefit payments	1,591
■ Inactive employees entitled to but not yet receiving benefit payments	0
■ Active employees	2,040
■ Total	3,631

Net OPEB Liability/(Asset)

(Amounts in 000's)

	Fiscal Year Ending			
	6/30/18			6/30/17
■ Measurement Date	6/30/17		6/30/16	
■ Total OPEB Liability (TOL)	\$	370,692	\$	358,720
■ Fiduciary Net Position (FNP)*		84,658		66,466
■ Net OPEB Liability (NOL)		286,034		292,254
■ Funded status (FNP/TOL)		22.8%		18.5%

^{*} Per CERBT Schedule of Changes in Fiduciary Net Position by Employer for Fiscal Year Ended June 30, 2017



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Note Disclosures

Changes in Net OPEB Liability/(Assets)

(Amounts in 000's)

	Total	Fiduciary	Net
	OPEB	Net	OPEB
	Liability	Position	Liability
■ Balance at 6/30/17*	\$ 358,720	\$ 66,466	\$ 292,254
■ Changes for the year			
Service Cost	5,731	-	5,731
• Interest	19,676	-	19,676
 Difference between actual and expected experience 	-	-	-
• Changes of benefit terms	-	-	-
 Assumption changes 	-	-	-
 Contributions - employer 	-	24,264	(24,264)
 Contributions - employee 	-	-	-
 Net investment income 	-	7,400	(7,400)
 Benefit payments 	(13,435)	(13,435)	-
 Administrative expenses 	-	(37)	37
■ Net Changes	11,972	18,192	(6,220)
■ Balance at 6/30/18**	370,692	84,658	286,034

^{*} Measurement date 6/30/16

^{**} Measurement date 6/30/17



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Sensitivity of Net OPEB Liability

(Amounts in 000's)

■ Changes in the Discount Rate

		Discount Rate	
	4.50%	5.50%	6.50%
	(1% Decrease)	(Current Rate)	(1% Increase)
■ Net OPEB Liability	\$ 340,411	\$ 286,034	\$ 241,607

■ Changes in the Healthcare Trend Rate

	Healthcare Trend Rate		
	1% Decrease	Current Trend	1% Increase
■ Net OPEB Liability	\$ 266,346	\$ 286,034	\$ 304,001

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Note Disclosures

OPEB Expense for Fiscal Year

(Amounts in 000's)

	4	2017/18
■ OPEB Expense	\$	20,802

See slide 22 for OPEB expense detail, which is not required disclosure.

Deferred Outflows/Inflows Balances at June 30, 2018

(Amounts in 000's)

	Deferred Outflows of Resources	Deferred Inflows of Resources
■ Differences between expected and actual experience	\$ -	\$ -
■ Changes of assumptions	-	-
■ Net difference between projected and actual earnings on plan investments*	-	2,758
■ Employer contributions made subsequent to the measurement date	22,478	-
■ Total	22,478	2,758

^{*} Deferred Inflows and Outflows combined for footnote disclosure.



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Note Disclosures

Recognition of Deferred Outflows and Inflows of Resources in Future OPEB Expense

(Amounts in 000's)

	Deferred Outflows/(Inflows)	
Fiscal Year Ending June 30:	of Resources	
■ 2019	\$ (689)	
■ 2020	(689)	
■ 2021	(689)	
■ 2022	(691)	
■ 2023	-	
■ Thereafter	-	

Significant Actuarial Assumptions Used for Total OPEB Liability

Actuarial Assumption	June 30, 2017 Measurement Date
■ Actuarial Valuation Date	■ July 1, 2017
■ Expected Long-Term Rate	■ 5.50%
of Return on Investments	
■ 20-Year Municipal Bond	■ N/A
Rate	■ Plan assets projected to be sufficient to pay all
	benefits from trust
■ Discount Rate	■ 5.50% at June 30, 2017
	■ 5.50% at June 30, 2016
■ General Inflation	■ 2.75% per annum
■ Mortality, Retirement,	■ Marin County Employees' Retirement Association
Disability, Termination	2011-2014 Experience Study
■ Mortality Improvement	■ Mortality projected fully generational with Scale
	MP-2017



Note Disclosures

Significant Actuarial Assumptions Used for Total OPEB Liability

Actuarial Assumption	June 30, 2017 Measurement Date
Medical Trend	■ Non-Medicare - 7.5% for 2019, decreasing to an
	ultimate rate of 4.0% in 2076 and later years
	■ Medicare - 6.5% for 2019, decreasing to an
	ultimate rate of 4.0% in 2076 and later years
	■ Medicare Part B - 0.0% for 2019, increasing to
	Medicare trend in 2023 and later years
■ Plan 3 Cap Increase	■ 3% per year
■ Participation	■ Varies by Plan and years of service

Required Supplementary Information

Changes in Net OPEB Liability/(Assets) and Related Ratios

(Amounts in 000's)

Fiscal Year	2017/18		
Measurement Period	2016/17		
■ Changes in Total OPEB Liability			
Service Cost	\$ 5,731		
• Interest	19,676		
 Changes of benefit terms 	-		
 Difference between actual and 			
expected experience	_		
 Assumption changes 	-		
Benefit payments	(13,435)		
■ Net Changes	11,972		
■ Total OPEB Liability (beginning of year)	358,720		
■ Total OPEB Liability (end of year)	370,692		



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Required Supplementary Information

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Changes in Net OPEB Liability/(Assets) and Related Ratios

(Amounts in 000's)

Fiscal Year	2017/18
Measurement Period	2016/17
■ Changes in Plan Fiduciary Net Position	
 Contributions - employer 	\$ 24,264
 Contributions - employee 	-
 Net investment income 	7,400
Benefit payments	(13,435)
 Administrative expenses 	(37)
Other changes	
• Net Changes	18,192
■ Plan Fiduciary Net Position (beginning of year)	 66,466
■ Plan Fiduciary Net Position (end of year)	84,658

^{*} Includes \$1,572 in implied Subsidy benefit payments



Required Supplementary Information

Changes in Net OPEB Liability/(Assets) and Related Ratios

(Amounts in 000's)

	scal Year 2017/18
■ Net OPEB Liability/(Asset)	\$ 286,034
■ Fiduciary Net Position as a percentage of the Total OPEB Liability	22.8%
■ Covered employee payroll*	203,311
■ Net OPEB Liability as a percentage of covered employee payroll	140.7%

^{*} Covered employee payroll for measurement period ending 6/30/17



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Required Supplementary Information

Schedule of Employer Contributions

(Amounts in 000's)

	scal Year 2017/18
■ Actuarially determined contribution	\$ 21,561
 Contributions in relation to the Actuarially determined contribution 	 22,478
■ Contribution deficiency/(excess)	(917)
■ Covered employee payroll*	209,589
■ Contributions as a percentage of covered employee payroll	10.7%

^{*} Covered employee payroll for fiscal year ending 6/30/18



Required Supplementary Information

Notes to Schedule of Employer Contribution Methods and Assumptions for Actuarially Determined Contribution

■ Valuation Date	■ July 1, 2017
■ Actuarial Cost Method	■ Entry Age Normal, Level percentage of payroll
■ Amortization Method	■ Level percentage of payroll
	■ Investment gain/loss - Over closed 25-year period that includes a 3-year phase-in from 2017/18
	■ Other - Over closed 25-year period from 2017/18
■ Asset Valuation	■ Market value of assets

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Actuarial Certification

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This report presents the County of Marin Retiree Healthcare Plan 2018 reporting and disclosure information under Governmental Accounting Standards Board Statement No. 75 (GASBS 75).

The report provides information intended for reporting under GASBS 75, but may not be appropriate for other purposes. Information provided in this report may be useful to the County 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 County as summarized in this report, which we relied on and did not audit. We reviewed the participant data for reasonableness. As permitted under GASBS 75, the total OPEB liability has been calculated from the July 1, 2017 actuarial valuation. Additional information on participants included in the valuation, actuarial assumptions, and asset information can be found in our actuarial valuation report dated December 2017

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. Additionally, in our opinion, actuarial methods and assumptions comply with GASBS 75. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

Marilyn Oliver, FSA, MAAA, EA, FCA

Vice President

Bartel Associates, LLC

July 27, 2018

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Associate Actuary

Bartel Associates, LLC

July 27, 2018

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Recognition of Deferred Outflows/Inflows at June 30, 2018

Differences between Expected and Actual Experience

(Amounts in 000's)

		Initial	An	Amount Recognized in OPEB Expense for FYE							ces of erred
	Initial	Recog								Out-	(In-
FYE	Amt	Period	2018	2019	2020	2021	2022	2023	2024+	flows	flows)
2018	\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total			-	-	-	-	-	-	-	-	-



County of Marin

Supporting Calculations

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Recognition of Deferred Outflows/Inflows at June 30, 2018

Changes of Assumptions

(Amounts in 000's)

		Initial	An	Amount Recognized in OPEB Expense for FYE							ces of erred
FYE	Initial Amt	Recog Period	2018	2019	2020	2021	2022	2023	2024+	Out- flows	(In- flows)
2018	\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total			-	-	-	-	-	-	-	-	-

Recognition of Deferred Outflows/Inflows at June 30, 2018

Projected Versus Actual Earnings on Investments

(Amounts in 000's)

		Initial	Am	Amount Recognized in OPEB Expense for FYE						Balan Defe	ces of erred
	Initial	Recog								Out-	(In-
FYE	Amt	Period	2018	2019	2020	2021	2022	2023	2024+	flows	flows)
2018	\$(3,447)	5	\$ (689)	\$ (689)	\$ (689)	\$ (689)	\$ (691)	\$ -	\$ -	\$ -	\$(2,758)
Total			(689)	(689)	(689)	(689)	(691)	-	-	-	(2,758)

^{*} Calculation of initial amount for measurement period ending 6/30/17:

Projected earnings on investments of \$3,953 (slide 23), less

Actual earnings on investments of \$7,400 (net investment income, slide 14), equals

Projected earnings less actual earnings of \$(3,447)



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Supporting Calculations

Components of GASBS 75 OPEB Expense

(Amounts in 000's)

	F	iscal Year 2017/18
■ Service Cost	\$	5,731
■ Interest on Total OPEB Liability		19,676
■ Changes of benefit terms		-
■ Projected earning on investments		(3,953)
■ Employee contributions		-
■ Administrative expenses		37
■ Recognition of deferred outflows/inflows		
Difference in experience		-
• Change of assumptions		-
• Investment gain/loss		(689)
■ OPEB Expense		20,802

Components of GASBS 75 OPEB Expense

Calculation of Projected Earnings on Investments

(Amounts in 000's)

	Dollar Amount	Expected Return	Portion of Year	Projected Earnings
■ Fiduciary Net Position	\$ 66,466	5.50%	100%	\$ 3,656
■ Employer contributions	24,264	5.50%	50%	667
■ Employee contributions	-	5.50%	50%	-
■ Benefit payments	(13,435)	5.50%	50%	(369)
■ Administrative expenses	(37)	5.50%	50%	(1)
■ Projected earnings				3,953



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Supporting Calculations

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Components of GASBS 75 OPEB Expense

Calculation of Interest on Total OPEB Liability

(Amounts in 000's)

	Dollar	Expected	Portion of	
	Amount	Return	Year	Interest
■ Total OPEB Liability	\$ 358,720	5.50%	100%	\$ 19,730
■ Change of benefit terms*	-	5.50%	0%	-
■ Difference in experience*	-	5.50%	0%	-
■ Change of assumptions*	-	5.50%	0%	-
■ Service Cost	5,731	5.50%	100%	315
■ Benefit payments	(13,435)	5.50%	50%	(369)
■ Total Interest				19,676

^{*} At end of measurement period



GASBS 75 Balance Equation

(Amounts in 000's)

	Fiscal Year Ending		
	6/30/17	6/30/18	
■ Measurement date	6/30/16	6/30/17	
■ Total OPEB Liability	\$ 358,720	\$ 370,692	
■ Fiduciary Net Position	66,466	84,658	
■ Net OPEB Liability	292,254	286,034	
■ Deferred inflows of resources	-	2,758	
■ Deferred (outflows) of resources			
■ Balance Sheet	292,254	288,792	

Check:

■ Balance Sheet 6/30/17	\$ 292,254
OPEB Expense	20,802
Contributions	(24,264)
■ Balance Sheet 6/30/18	288,792

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Supporting Calculations

Discount Rate Crossover Test Projection of Fiduciary Net Position

(Amounts in millions)

Year	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Admin Expenses	Projected Investment Earnings	Projected Ending Fiduciary Net Position
1	\$ 85	\$ 22	\$ 14	\$ 0	\$ 4	\$ 96
2	96	22	15	0	5	108
3	108	22	17	0	6	118
4	118	22	18	0	6	128
5	128	22	19	0	7	138
6	138	22	20	0	8	148
7	148	23	22	0	8	157
8	157	23	23	0	8	165
9	165	23	24	0	9	174
10	174	24	25	0	9	182
15	211	25	29	0	11	218
20	250	28	32	0	13	259
25	309	32	32	0	17	326
26	326	0	31	0	17	312
30	270	0	28	0	14	255
35	200	0	22	0	10	188
40	143	0	17	0	7	133
45	97	0	13	0	5	89
50	60	0	9	0	3	54
55	34	0	6	0	2	30
60	18	0	3	0	1	16
70	8	0	0	0	0	8