



**Cavanaugh Macdonald**  
CONSULTING, LLC

*The experience and dedication you deserve*



**New Mexico Magistrate Retirement  
Fund**

**GASB Statement No. 67 Supplemental Report  
Prepared as of June 30, 2014**



## **TABLE OF CONTENTS**

<b><u>Section</u></b>	<b><u>Item</u></b>	<b><u>Page No.</u></b>
I	Introduction	1
II	Financial Statement Notes	3
III	Required Supplementary Information	6
IV	Notes to the Required Schedules	10
Appendix A	Actuarial Assumptions	11

## Section I - Introduction

---

The Governmental Accounting Standards Board issued Statement No. 67 (GASB 67), “Financial Reporting for Pension Plans,” in June 2012. GASB 67’s effective date is for plan years beginning after June 15, 2013. This report, prepared as of June 30, 2014 (the Measurement Date), presents information to assist PERA in meeting the requirements of GASB 67. Much of the material provided in this report is based on the data, assumptions and results of the annual actuarial valuation of the New Mexico Magistrate Retirement Fund (the Fund) as of June 30, 2013. Assumption changes adopted by the Board during the fiscal year were used to produce the June 30, 2014 liabilities. These actuarial assumptions are included in Appendix A. Benefit provision changes effective July 1, 2014 also impacted the measurements provided herein.

GASB 67 replaces GASB 25 and represents a significant departure from the requirements of that older statement. GASB 25 was issued as a funding friendly statement that required pension plans to report items consistent with the results of the plan’s actuarial valuations, as long as those valuations met certain parameters. GASB 67 basically divorces accounting and funding, creating disclosure and reporting requirements that may or may not be consistent with the basis used for funding the Plan.

A major change in GASB 67 is the requirement to determine the Total Pension Liability (TPL) utilizing the Entry Age Normal actuarial funding method. The Net Pension Liability (NPL) is the TPL minus the Plan’s Fiduciary Net Position (FNP) (basically the market values of assets).

Among the assumptions needed for the liability calculation is a Single Equivalent Interest Rate (SEIR). To determine the SEIR, the FNP must be projected into the future for as long as there are anticipated benefits payable under the plan’s provision applicable to the membership and beneficiaries of the Plan on the Measurement Date. If the FNP is projected to not be depleted at any point in the future, the long term expected rate of return on plan investments expected to be used to finance the benefit payments may be used as the SEIR.

If, however, in a future year, the FNP is projected to be depleted, the SEIR is determined as the single rate that will generate a present value of benefit payments equal to the sum of the present value determined by discounting all projected benefit payments through the date of depletion by the long term expected rate of return, and the present value determined by discounting those benefits after the date of depletion by a 20-year tax-exempt municipal bond (rating AA/Aa or higher) rate. The rate used, if necessary, for this purpose is the General Obligation 20-year Municipal Bond Index published monthly by the St. Louis Federal Reserve Bank.

To the best of our knowledge, this supplemental report is complete and accurate. It relies on much of the information contained in the annual actuarial valuations of the Fund. The annual valuation reports should be distributed along with this report to interested parties. The actuarial calculations

## **Section I - Introduction**

---

were performed by qualified actuaries according to generally accepted actuarial procedures and methods. Further, the calculations were prepared in accordance with the principles of practice prescribed by the Actuarial Standards Board and, in our opinion, meet the requirements of GASB 67. The undersigned are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

The sections that follow provide the results of all the necessary calculations, presented in the order laid out in GASB 67 for note disclosure and Required Supplementary Information (RSI).

Respectfully Submitted,

Jonathan T. Craven, ASA, EA, MAAA, FCA  
Senior Actuary

John J. Garrett, ASA, MAAA, FCA  
Principal and Consulting Actuary

## Section II – Financial Statement Notes

---

The material presented herein will follow the order presented in GASB 67. Paragraph numbers are provided for ease of reference.

The information required by paragraphs 30(a)(1)-(3) are to be supplied by PERA.

The data required by paragraph 30(a)(4) regarding the Plan membership were furnished by PERA. The following table summarizes the membership of the Plan as of June 30, 2013, the Actuarial Valuation Date.

### Membership

Category	Number
Inactive Members or Their Beneficiaries Currently Receiving Benefits	86
Inactive Members Entitled to But Not Yet Receiving Benefits	13
Active Members	41
<b>Total</b>	<b>140</b>

The information required by paragraphs 30(a)(5)-(6) as well as paragraphs 30(b)-(f) are to be supplied by PERA. The information required by paragraph 31(a) is provided in the following table. As stated above, the Net Pension Liability is equal to the Total Pension Liability minus the Plan's Net Position. That result as of June 30, 2014 is presented in the table below.

Calculation of the Net Pension Liability (NPL) as of Fiscal Year Ending June 30, 2014	
Total Pension Liability (TPL)	56,401,059
Plan's Fiduciary Net Position (FNP)	35,184,910
Net Pension Liability (NPL)	21,216,149
Ratio of Fiduciary Net Position to Total Pension Liability	62.38%

## Section II – Financial Statement Notes

---

Paragraph 31(b) requires information regarding the actuarial assumptions used to measure the TPL. The economic and mortality assumptions were adopted by the Board for use in the June 30, 2014 actuarial valuation of the Magistrate Fund. Appendix A provides the assumptions used for the measurements contained herein.

### Long-Term Expected Rate of Return

The long-term expected rate of return on pension plan investments was determined using statistical analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target asset allocation and most recent best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
US Equity	21.1%	5.00%
International Equity	24.8	5.20
Private Equity	7.0	8.20
Core and Global Fixed Income	26.1	1.85
Fixed Income Plus Sectors	5.0	4.80
Real Estate	5.0	5.30
Real Assets	7.0	5.70
Absolute Return	<u>4.0</u>	4.15
Total	100.0%	

*Discount rate.* The discount rate used to measure the total pension liability was 6.33 percent. The projection of cash flows used to determine the discount rate assumed that future contributions will be made in accordance with statutory rates. On this basis, the pension plan's fiduciary net position together with the expected future contributions are not sufficient to provide all projected future benefit payments of current plan members as determined in accordance with GASB Statement No. 67. Therefore, a 6.33% assumed long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

## Section II – Financial Statement Notes

---

This rate is a blend of the expected rate of return on assets of 7.75% and the 20-year tax-exempt municipal bond rate 4.25% as of the measurement date.

Paragraph 31(b)(1)(g) requires disclosure of the sensitivity of the net pension liability to changes in the discount rate. The following presents the net pension liability of the Fund, calculated using the discount rate of 6.33 percent, as well as what the Fund's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (5.33 percent) or 1-percentage-point higher (7.33 percent) than the current rate:

	1% Decrease (5.33%)	Current Discount Rate (6.33%)	1% Increase (7.33%)
Net Pension Liability	27,210,573	21,216,149	16,139,410

June 30, 2013 is the actuarial valuation date upon which the TPL is based (paragraph 31(c)). Update procedures were used to roll forward the liabilities to the June 30, 2014 Measurement Date.

## **Section III – Required Supplementary Information**

---

There are several tables of Required Supplementary Information (RSI) that need to be included in the Fund’s financial statements. The tables for paragraphs 32(a)-(c) are provided on the following pages. The end of year total pension liability (TPL) was determined by “rolling-forward.” This method determines the end of year amount by assuming that there were no changes in the TPL during the year due to actual experience being different than expected for that plan year. Impact of changes to the assumptions and benefit terms are appropriately measured and provided in the supplementary information. The money-weighted rates of return required for paragraph 32(d) are to be determined by PERA’s investment professionals.

## Section III – Required Supplementary Information

### SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY GASB 67 Paragraph 32(a)

	2014	2015	2016	2017	2018
<b>Total pension liability</b>					
Service Cost	1,428,353				
Interest	3,688,653				
Benefit changes	(7,527,733)				
Difference between expected and actual experience	0				
Changes of assumptions	(7,643,920)				
Benefit payments	(3,689,881)				
Refunds of contributions	(15,477)				
<b>Net change in total pension liability</b>	<b>(13,760,005)</b>				
<b>Total pension liability - beginning</b>	<b>70,161,064</b>				
<b>Total pension liability - ending (a)</b>	<b>56,401,059</b>				
<b>Plan net position</b>					
Contributions - employer	793,044				
Contributions - member	266,120				
Net investment income	5,199,209				
Benefit payments	(3,689,881)				
Administrative expense	(24,275)				
Refunds of contributions	(15,477)				
Other	216,853				
<b>Net change in plan net position</b>	<b>2,745,593</b>				
<b>Plan net position - beginning</b>	<b>32,439,317</b>				
<b>Plan net position - ending (b)</b>	<b>35,184,910</b>				
<b>Net pension liability - ending (a) - (b)</b>	<b>21,216,149</b>				

## Section III – Required Supplementary Information

---

### SCHEDULE OF THE NET PENSION LIABILITY GASB 67 Paragraph 32(b)

	2014	2015	2016	2017	2018
Total pension liability	56,401,059				
Plan net position	35,184,910				
Net pension liability	21,216,149				
Ratio of plan net position to total pension liability	62.38%				
Covered-employee payroll	3,515,567				
Net pension liability as a percentage of covered-employee payroll	603.49%				

## Section III – Required Supplementary Information

### SCHEDULE OF EMPLOYER CONTRIBUTIONS GASB 67 Paragraph 32(c)

	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005
Actuarially determined contributions	\$1,992,392	\$2,286,413	\$1,793,261	\$2,013,684	\$1,698,108	\$1,151,061	\$1,029,865	\$943,884	\$1,009,203	\$927,233
Actual employer contributions	<u>793,044</u>	<u>805,337</u>	<u>676,073</u>	<u>894,644</u>	<u>825,317</u>	<u>1,000,180</u>	<u>981,000</u>	<u>920,000</u>	<u>848,975</u>	<u>763,074</u>
Annual contribution deficiency (excess)	1,199,348	1,481,076	1,117,188	1,119,040	872,791	150,881	48,865	23,884	160,228	164,159
Covered-employee payroll	3,515,567	3,136,834	3,213,712	3,405,121	3,519,570	4,128,599	3,363,342	3,464,587	3,149,560	3,196,052
Actual contributions as a percentage of covered-employee payroll	22.56%	25.67%	21.04%	26.27%	23.45%	24.23%	29.17%	26.55%	26.96%	23.88%

## Section IV: Notes to the Required Schedules

---

### Summary of Actuarial Methods and Assumptions for Valuation

Actuarial date	June 30, 2014
Actuarial cost method	Entry Age Normal
Amortization method	Level Percent of Payroll, Open
Amortization period	30 years
Asset valuation method	4 Year Smoothed Market Value
Actuarial Assumptions:	
Investment rate of return	7.75% annual rate, net of investment expense
Payroll Growth	3.50%
Projected salary increases	3.75%

In addition, under paragraph 34, the following should be noted regarding the RSI:

The actuarial assumptions utilized in developing the TPL are those contained in Appendix A of this report. Assumption changes effective June 30, 2014 primarily include lower rate of inflation and changes to rates of mortality. The Schedule of Changes in the Net Pension Liability provided on page 7 of this supplemental report provides the impact to the calculation of the TPL due to the adoption of the new assumptions.

The benefit terms have changed due to the passage of legislation during the fiscal year. Primarily the provisions concerning future cost of living adjustments (COLA) provided to retirees and the prospective benefits accruals and final average salary of active members beginning July 1, 2014 are affected. Please refer to the June 30, 2014 actuarial valuation reports for the summary of the benefits provided through the fund. The Schedule of Changes in the Net Pension Liability provided on page 7 of this supplemental report provides the impact to the calculation of the TPL due to the changes in the benefit terms.

# Appendix A: Actuarial Assumptions

---

## Actuarial Assumptions Used for Determining the Total Pension Liability (TPL)

### Economic Assumptions (effective with June 30, 2014 valuation)

**Assumed Rate of Investment Return.** 7.75%, net of investment expenses.

**Discount Rate for Determining the TPL:** 6.33%.

**20-Year Municipal Bond Rate as of Measurement Date:** 4.25%.

**Price Inflation.** 3.0% per annum, compounded.

**Salary Increases.** Annual salaries of active members are assumed to increase at an annual rate of 3.75% per year.

**Administrative Expenses.** 0.45% of payroll.

### Demographic Assumptions (effective with June 30, 2012 valuation)

**Rates of Retirement.** These rates are used to measure the probability of an eligible magistrate retiring at the indicated ages.

Ages	Active Magistrates Retiring Within the Year Following Attainment of Indicated Ages
50-61	25 %
62	30
63-69	25
70	100

A member was assumed to be eligible for normal retirement after attaining 24 years of service, regardless of age; age 60 with 15 years of service; or age 65 with 5 or more years of service, provided that the member had a minimum of 5 years of service under the Magistrate Retirement Fund.

## Appendix A: Actuarial Assumptions

**Rates of Disability.** Beginning with the June 30, 2008 valuation there are assumed to be no future disabled retirees.

**Rates of Separation from Active Membership.** The rates are used to measure probabilities of active members terminating that status for a reason other than disability or death. The rates do not apply to magistrates who are eligible for retirement.

Ages	Percent of Active Magistrate Separating Within the Next Year
20	6.00 %
25	6.00
30	6.00
35	6.00
40	6.00
45	6.00
50	6.00
55	6.00

**Mortality Assumption (effective with June 30, 2014 valuation).** The mortality assumptions are based on the RP-2000 Mortality Tables (Combined table for healthy post-retirement, Employee table for active members, and Disabled table for disabled retirees before retirement age) with projection to 2018 using Scale AA. This assumption includes between 5% and 8% margin sufficient to allow for modest future improvement in the rates of mortality.

Sample Mortality Rates								
Pre-Retirement			Post-Retirement			Disabled		
Age	Male	Female	Age	Male	Female	Age	Male	Female
25	0.0003	0.0002	45	0.0012	0.0008	45	0.0178	0.0056
30	0.0004	0.0002	50	0.0015	0.0012	50	0.0208	0.0085
35	0.0007	0.0004	55	0.0026	0.0024	55	0.0251	0.0143
40	0.0009	0.0005	60	0.0050	0.0046	60	0.0314	0.0200
45	0.0012	0.0008	65	0.0099	0.0089	65	Uses healthy post-retirement rates upon surviving to normal retirement age.	
50	0.0015	0.0012	70	0.0169	0.0153	70		
55	0.0021	0.0022	75	0.0294	0.0243	75		
60	0.0036	0.0036	80	0.0537	0.0404	80		
65	0.0059	0.0053	85	0.0976	0.0695	85		

## Appendix A: Actuarial Assumptions

---

### Miscellaneous and Technical Assumptions

<b>Marriage Assumption:</b>	All members are assumed to be married for purposes of death-in-service benefits. Male spouses are assumed to be three years older than female spouses. At retirement, 87% of members are assumed to be married for purposes of valuing death after retirement benefits.
<b>Pay Increase Timing:</b>	Beginning of (Fiscal) year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the valuation date.
<b>Decrement Timing:</b>	Decrements of all types are assumed to occur at the beginning of year.
<b>Eligibility Testing:</b>	Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
<b>Decrement Relativity:</b>	Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
<b>Decrement Operation:</b>	Disability and mortality decrements operate during the first 5 years of service. Only mortality operates during retirement eligibility.
<b>Incidence of Contributions:</b>	Contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report and the actual payroll payable at the time contributions are made.
<b>Normal Form of Benefit:</b>	A 75% automatic joint and survivor payment is the assumed normal form of benefit.
<b>Benefit Service:</b>	Exact fractional service is used to determine the amount of benefit payable.