

MWRA Employees' Retirement System

Total Fund Performance Detail (Net)

December 31, 2014

	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Return (%)	Since
Composite	439,857,321	100.0	100.0	-0.9	0.8	-1.1	4.1	11.1	9.3	6.9	6.9	Jan-86
Allocation Index				-0.4	2.0	0.8	5.6	10.4	8.7	5.9	--	Jan-86
Policy Index				-0.6	1.6	0.4	5.4	10.6	9.0	6.3	--	Jan-86
Total Balanced	59,275,442	13.5	16.0	-2.2	-1.8	-4.9	1.0	7.0	--	--	4.5	Dec-10
PRIT Core Fund	2,830,659	0.6		0.1	2.0	1.0	7.7	11.9	9.6	6.6	6.6	Apr-99
60% S&P 500 / 40% BC Agg				-0.1	3.7	4.5	10.6	13.1	11.2	6.8	5.5	Apr-99
Wellington Opportunistic Investment	28,631,777	6.5	8.0	-1.7	-1.1	-4.7	0.6	8.1	4.7	--	9.5	Nov-08
65% MSCI ACWI (Gross) / 35% BC Agg				-1.2	1.0	-0.4	5.2	10.5	8.1	6.3	10.6	Nov-08
PIMCO All Asset	27,813,005	6.3	8.0	-3.0	-2.9	-5.7	0.8	5.5	6.4	--	10.5	Dec-08
PIMCO All Asset Index				-0.8	0.7	-0.1	4.9	4.4	5.8	5.5	8.2	Dec-08
Total Domestic Equity	105,001,305	23.9	18.0	0.4	6.4	4.5	9.2	20.1	15.9	8.7	6.2	May-99
Large Cap	71,279,120	16.2	12.0	0.1	6.2	6.5	12.5	20.6	--	--	16.6	Dec-10
Rhumblin Advisors S&P 500 Index Fund	24,051,217	5.5	4.0	-0.3	4.9	6.1	13.5	20.2	15.3	7.7	7.9	Apr-97
S&P 500				-0.3	4.9	6.1	13.7	20.4	15.5	7.7	7.8	Apr-97
MFS Large Cap Value	23,474,424	5.3	4.0	0.8	6.2	6.1	11.3	20.8	14.1	8.1	7.8	Apr-01
Russell 1000 Value				0.6	5.0	4.8	13.5	20.9	15.4	7.3	7.2	Apr-01
Intech Broad Large Cap Growth	23,753,479	5.4	4.0	-0.4	7.4	7.3	12.8	20.7	--	--	18.0	Feb-10
Russell 1000 Growth				-1.0	4.8	6.3	13.0	20.3	15.8	8.5	17.2	Feb-10
Small Cap	33,722,185	7.7	6.0	1.1	6.9	0.4	2.5	18.9	--	--	15.9	Dec-10
Robeco Boston Partners Small Cap Value	16,792,673	3.8	3.0	0.9	5.6	-1.7	3.9	19.2	14.8	8.9	11.7	Feb-97
Russell 2000 Value				2.7	9.4	0.0	4.2	18.3	14.3	6.9	9.6	Feb-97
Loomis Sayles Small Cap Growth	16,929,512	3.8	3.0	1.4	8.3	2.6	1.3	18.7	18.1	11.1	5.2	Jan-97
Russell 2000 Growth				3.0	10.1	3.3	5.6	20.1	16.8	8.5	6.5	Jan-97
Total International Equity	68,533,978	15.6	17.0	-3.8	-4.0	-7.8	-4.6	8.8	2.9	3.6	4.4	Mar-99
Schroder International Alpha Fund	24,032,767	5.5	6.0	-4.1	-4.3	-7.2	-5.6	--	--	--	6.4	Mar-12
MSCI EAFE				-3.5	-3.6	-9.2	-4.9	11.1	5.3	4.4	7.6	Mar-12
The Boston Company	23,123,814	5.3	6.0	-4.0	-6.1	-11.6	-8.2	8.8	2.3	--	3.0	Sep-05
MSCI EAFE				-3.5	-3.6	-9.2	-4.9	11.1	5.3	4.4	4.3	Sep-05

Notes:

1 - Preliminary Flash Report



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Emerging Markets Equity	21,377,397	4.9	5.0	-3.2	-1.2	-3.9	0.9	--	--	--	-0.2	Nov-13
Lee Munder Emerging Market Equity	21,377,397	4.9	5.0	-3.2	-1.2	-3.9	0.9	--	--	--	-0.2	Dec-13
<i>MSCI Emerging Markets</i>				-4.6	-4.5	-7.8	-2.2	4.0	1.8	8.4	-3.3	Dec-13
Total Fixed Income	109,713,439	24.9	25.0	-0.8	0.1	-1.2	5.1	7.1	7.6	6.9	7.6	Mar-99
Invesco Core Bonds	43,519,020	9.9	10.0	-0.1	1.3	1.2	5.8	4.4	5.7	5.3	5.6	Dec-98
<i>Barclays Aggregate</i>				0.1	1.8	2.0	6.0	2.7	4.4	4.7	5.3	Dec-98
Loomis Sayles - Multi Sector Bonds	64,841,247	14.7	15.0	-1.3	-0.7	-2.7	4.6	8.9	8.7	7.9	9.0	Mar-99
<i>Barclays Aggregate</i>				0.1	1.8	2.0	6.0	2.7	4.4	4.7	5.4	Mar-99
<i>Barclays High Yield</i>				-1.4	-1.0	-2.9	2.5	8.4	9.0	7.7	7.2	Mar-99
Invesco Mortgage Fund	1,353,172	0.3		0.0	0.0	0.0	7.2	6.9	--	--	18.3	Apr-10
<i>Barclays Aggregate</i>				0.1	1.8	2.0	6.0	2.7	4.4	4.7	4.3	Apr-10
Total Hedge Fund	39,142,277	8.9	9.0	-0.2	-0.1	-0.7	3.5	8.0	5.4	--	4.0	Oct-06
PRIM Absolute Return Fund	18,029,638	4.1		0.3	1.2	1.1	5.6	8.8	5.9	--	4.3	Oct-06
<i>HFRI Fund of Funds Composite Index</i>				0.3	0.9	1.2	3.4	5.7	3.3	3.0	2.2	Oct-06
Permal Fixed Income Holdings	10,731,966	2.4		-0.4	-1.1	-2.3	1.8	8.3	--	--	7.6	Oct-11
<i>HFRI Fund of Funds Composite Index</i>				0.3	0.9	1.2	3.4	5.7	3.3	3.0	5.1	Oct-11
EnTrust	10,380,673	2.4		-0.7	-1.3	-1.9	1.8	6.6	--	--	6.6	Jan-12
<i>HFRI Fund of Funds Composite Index</i>				0.3	0.9	1.2	3.4	5.7	3.3	3.0	5.7	Jan-12
Other	4,371,035	1.0	0.0	0.0	0.4	0.4	0.4	0.1	--	--	0.1	Dec-10
Cash Account	4,371,035	1.0		0.0	0.4	0.4	0.4	0.1	0.2	1.7	2.2	Feb-00
<i>91 Day T-Bills</i>				0.0	0.0	0.0	0.0	0.0	0.1	1.4	1.8	Feb-00
Total Real Estate	25,640,460	5.8	6.0	1.5	2.7	3.0	10.4	12.9	11.9	6.2	7.3	Apr-99
PRIT Core Real Estate	12,870,641	2.9		2.9	5.5	6.1	13.9	12.6	--	--	13.5	Jul-10
Morgan Stanley Prime Property	5,735,296	1.3		0.0	0.0	0.0	5.6	11.1	12.9	6.6	8.1	Sep-95
Intercontinental Real Estate Investment Fund IV	529,444	0.1		0.0	0.0	0.0	5.0	3.0	3.0	--	-8.9	Jun-05
Landmark VI (\$2m commitment in '11)	1,131,344	0.3		0.0	0.0	0.0	12.5	16.3	--	--	16.3	Jul-11
Mesirow MFire Global (\$2m commitment in '11)	1,272,194	0.3		0.0	0.0	0.0	5.7	--	--	--	-1.2	Apr-12
Cerberus (\$1.5m commitment in '12)	1,124,600	0.3		0.0	0.0	0.0	10.5	--	--	--	16.1	May-13
Realty Associates Fund X LP (\$3.5m commitment in '12)	2,976,941	0.7		0.0	0.0	0.0	7.8	--	--	--	6.4	May-13
<i>NCREIF Property Index 1 Qtr Lag</i>				2.6	2.6	5.6	11.3	11.1	11.0	8.5	11.8	May-13

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Total Private Equity	28,179,385	6.4	9.0	0.7	0.6	1.3	8.6	11.1	13.5	8.7	8.0	Apr-99
PRIM Vintage Year 2008 (\$3m commitment in '08)	2,078,491	0.5		3.2	2.8	8.3	20.9	21.3	19.2	--	1.6	Jun-08
PRIM Vintage Year 2009 (\$1m commitment in '09)	288,360	0.1		2.1	1.8	6.6	22.7	16.5	2.0	--	-3.1	Nov-09
PRIM Vintage Year 2010 (\$1m commitment in '10)	678,797	0.2		4.4	4.2	7.9	23.6	16.0	--	--	-0.3	Jun-10
PRIM Vintage Year 2011 (\$1.5m commitment in '11)	852,853	0.2		5.5	4.9	8.7	29.7	5.5	--	--	-15.0	May-11
PRIM Vintage Year 2012 (\$1m commitment in '12)	334,105	0.1		5.3	4.1	3.9	23.3	--	--	--	-53.2	Jun-12
PRIM Vintage Year 2014 (\$2m commitment in '14)	92,646	0.0		40.2	37.0	-8.5	--	--	--	--	-27.7	Jun-14
Alcentra European DLF (\$5m commitment in '14)	3,100,830	0.7		--	--	--	--	--	--	--	--	Jan-15
Ascent Fund II	73,345	0.0		0.0	0.0	0.0	5.1	12.7	16.7	8.7	13.5	Jan-99
Ascent Fund IV (\$2m commitment in '04)	1,457,985	0.3		0.0	0.0	0.0	0.0	2.9	1.8	-1.1	-1.4	Jul-04
Ascent Fund V (\$2m commitment in '08)	2,235,927	0.5		0.0	0.0	0.0	4.9	17.2	14.4	--	8.7	Oct-08
Boston Capital	17,686	0.0		0.0	0.0	0.0	-19.9	1.7	0.8	24.9	9.8	Apr-99
Castile Ventures III, L.P. (\$3m commitment in '07)	1,240,641	0.3		0.0	0.0	0.0	-9.1	-6.5	-6.8	--	-8.9	Jan-08
Invesco Fund IV (\$3m commitment in '03)	1,810,263	0.4		0.0	0.0	0.0	2.9	13.7	17.1	12.9	10.7	Feb-04
Invesco Fund VI (\$5m commitment in '13)	2,280,115	0.5		0.0	0.0	0.0	7.6	--	--	--	7.1	Jul-13
Foundry 2007 (\$3m commitment in '07)	3,610,522	0.8		0.0	0.0	0.0	16.1	6.8	17.8	--	30.1	Dec-07
Foundry 2010 (\$3m commitment in '10)	2,902,967	0.7		0.0	0.0	0.0	5.8	17.6	--	--	11.4	Jan-11
Pinebridge PEP V (\$6m commitment in '07)	4,374,626	1.0		0.0	0.0	0.0	8.5	11.1	10.4	--	3.1	Mar-08
Landmark XV (\$3m commitment in '13)	749,224	0.2		0.0	0.0	0.0	5.3	--	--	--	27.5	Nov-13

Notes:

- 1 - Results for periods longer than one year are annualized.
- 2 - Total Balanced, Large Cap, Small Cap, and Other Composite performance starts 12/1/2010.
- 3 - Fiscal YTD begins July 1st.
- 4 - Preliminary Total Composite gross of fee since inception return is 8.8 for the month of December.
- 5 - Market values for Real Estate, with the exception of PRIT Core Real Estate, are as of 6/30/2014 adjusted for cash flows. PRIT Core Real Estate market value is as of the previous month.
- 6 - Market values for Private Equity managers, with the exception of PRIM Vintage Year accounts, are as of 6/30/2014 adjusted for cash flows. PRIM Vintage Year accounts market values are as of the previous month.

Reporting Methodology

- The client's custodian bank is NEPC's preferred data source unless otherwise directed. NEPC reconciles custodian data to manager data. If the custodian cannot provide accurate data, manager data may be used.
- Trailing time period returns are determined by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of Return are annualized when the time period is longer than a year. Performance is presented gross and/or net of fees as indicated on each page.
- For managers funded in the middle of a month, the "since inception" return will start with the first full month, although actual inception dates and cash flows are taken into account in all Composite calculations.
- This report may contain forward-looking statements that are based on NEPC's estimates, opinions and beliefs, but NEPC cannot guarantee that any plan will achieve its targeted return or meet other goals.



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