MWRA Employees' Retirement System

Total Fund Performance Detail (Net) - Preliminary

November 30, 2015

	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	Fiscal YTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Return (%)	Since
Composite	453,230,432	100.0	100.0	-0.4	-2.9	1.8	1.6	8.1	7.9	6.5		
Allocation Index				-0.1	-0.8	1.7	1.2	7.7	7.5	5.5		
Policy Index				-0.2	-1.1	1.7	1.1	7.7	7.7	5.9		
Total Balanced	69,855,084	15.4	16.0	-0.7	-5.4	-3.3	-5.4	1.9	2.9		2.9	Dec-10
PRIT Core Fund	2,785,049	0.6										
60% S&P 500 / 40% BC Agg												
Wellington Opportunistic Investment	26,373,350	5.8	6.0	0.0	-2.9	2.1	0.3	5.1	3.0		8.6	Nov-08
65% MSCI ACWI (Net) / 35% BC Agg				-0.6	-1.6	0.2	-1.1	6.6	6.5	5.4	8.8	Nov-08
PIMCO All Asset	23,039,207	5.1	6.0	-1.8	-7.2	-7.3	-10.0	-1.4	2.5		7.9	Dec-08
PIMCO All Asset Index				-0.4	0.1	0.9	0.0	2.0	4.3	5.3	7.2	Dec-08
William Blair	17,657,478	3.9	4.0	-0.4	-7.1						-7.8	Mar-15
60% MSCI ACWI (Net)/40% CITI WGBI				-1.3	-1.9	-1.9	-3.3	4.1	5.0	4.8	-3.6	Mar-15
Total Domestic Equity	95,740,806	21.1	20.0	1.2	-0.4	3.4	3.8	15.8	13.9	8.3	6.1	May-99
Large Cap	66,951,095	14.8	14.0	0.5	1.6	3.6	3.6	16.1	14.2		14.2	Dec-10
Rhumbline Advisors S&P 500 Index Fund	24,772,399	5.5	6.0	0.3	1.7	2.9	2.6	15.9	14.3	7.5	7.6	Apr-97
S&P 500				0.3	1.8	3.0	2.7	16.1	14.4	7.5	7.5	Apr-97
MFS Large Cap Value	20,877,111	4.6	4.0	0.3	0.4	1.2	2.0	15.9	13.4	7.7	7.4	Apr-01
Russell 1000 Value				0.4	-1.1	-1.7	-1.1	14.7	13.5	6.5	6.6	Apr-01
Intech Broad Large Cap Growth	21,301,585	4.7	4.0	0.9	2.6	6.7	6.3	16.5	14.7		16.3	Feb-10
Russell 1000 Growth				0.3	3.2	7.2	6.1	17.4	15.1	8.7	15.7	Feb-10
Small Cap	28,789,711	6.4	6.0	2.8	-4.2	3.1	4.2	15.0	13.5		13.5	Dec-10
Robeco Boston Partners Small Cap Value	14,390,298	3.2	3.0	1.5	-4.4	-0.6	0.2	12.4	12.0	7.7	11.0	Feb-97
Russell 2000 Value				2.8	-3.1	-2.3	0.4	12.6	10.6	6.1	9.0	Feb-97
Loomis Sayles Small Cap Growth	14,399,413	3.2	3.0	4.1	-3.9	6.8	8.2	17.6	14.9	10.8	5.3	Jan-97
Russell 2000 Growth				3.7	-4.8	3.6	6.6	17.3	13.4	8.5	6.4	Jan-97
Total International Equity	70,577,138	15.6	17.0	-2.3	-8.9	-5.4	-9.0	4.4	2.4	1.9	3.8	Mar-99
Schroder International Alpha Fund	26,716,497	5.9	6.0	-0.8	-4.1	1.2	-3.0	6.1			5.1	Mar-12
MSCI EAFE				-1.6	-4.7	0.5	-2.9	6.6	5.5	3.6	5.8	Mar-12
The Boston Company	24,096,131	5.3	6.0	-2.9	-8.6	-2.4	-6.2	5.1	2.4	2.1	2.5	Sep-05
MSCI EAFE				-1.6	-4.7	0.5	-2.9	6.6	5.5	3.6	3.9	Sep-05



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Emerging Markets Equity	19,764,509	4.4	5.0	-3.6	-15.3	-16.3	-19.0		-		-8.3	Nov-13
Lee Munder Emerging Market Equity	19,764,509	4.4	5.0	-3.6	-15.3	-16.3	-19.0		-		-8.6	Dec-13
MSCI Emerging Markets				-3.9	-15.5	-13.0	-17.0	-4.6	-3.0	4.4	-8.4	Dec-13
Total Fixed Income	99,391,582	21.9	22.0	-0.8	-1.4	-2.3	-2.8	2.6	4.9	6.4	7.0	Mar-99
Invesco Core Bonds	44,725,124	9.9	10.0	-0.3	0.3	0.2	0.1	1.8	3.8	5.1	5.3	Dec-98
Barclays Aggregate				-0.3	1.0	0.9	1.0	1.5	3.1	4.6	5.0	Dec-98
Loomis Sayles - Multi Sector Bonds	52,519,558	11.6	12.0	-1.3	-2.9	-4.3	-5.5	2.8	5.5	7.1	8.2	Mar-99
Barclays Aggregate				-0.3	1.0	0.9	1.0	1.5	3.1	4.6	5.2	Mar-99
Barclays High Yield				-2.2	-4.4	-2.0	-3.4	3.1	6.0	7.3	6.6	Mar-99
Invesco Mortgage Fund	2,146,900	0.5		0.0	0.0	6.5	25.7	13.4	11.0		20.7	Apr-10
Barclays Aggregate				-0.3	1.0	0.9	1.0	1.5	3.1	4.6	3.8	Apr-10
Total Hedge Fund	39,410,539	8.7	9.0	-0.2	-4.5	-3.0	-3.2	4.6	3.8		3.2	Oct-06
PRIM Absolute Return Fund	17,665,729	3.9	5.0									
91 Day T-Bill + 3% HFRI Fund of Funds Composite Index												
Permal Fixed Income Holdings	10,993,627	2.4	2.0	-0.4	-3.1	-2.2	-2.6	4.6			5.3	Oct-11
HFRI Fund of Funds Composite Index				0.8	-2.0	0.7	1.0	4.7	2.7	2.6	4.1	Oct-11
EnTrust	10,751,183	2.4	2.0	-0.4	-6.0	-5.5	-6.3	2.6			3.5	Jan-12
HFRI Fund of Funds Composite Index				0.8	-2.0	0.7	1.0	4.7	2.7	2.6	4.5	Jan-12
Other	4,875,791	1.1	0.0	0.0	0.0	0.1	0.1	0.2	0.1		0.1	Dec-10
Cash Account	4,875,791	1.1		0.0	0.0	0.1	0.1	0.2	0.1	1.4	2.0	Feb-00
91 Day T-Bills				0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.7	Feb-00
Total Real Estate	34,197,207	7.5	7.0	0.0	2.0	8.1	12.3	12.8	12.6	6.4	7.6	Apr-99
PRIT Core Real Estate	15,879,355	3.5										
Morgan Stanley Prime Property	6,653,659	1.5		0.0	0.0	7.3	12.9	13.8	14.4	7.1	8.5	Sep-95
Intercontinental Real Estate Investment Fund IV	237,921	0.1		0.0	0.0	25.7	44.3	16.8	12.0	-3.7	-4.9	Jun-05
Invesco Mortgage Recovery II (\$3M commitment in '15)	1,174,556	0.3		0.0							0.0	Oct-15
Landmark VI (\$2m commitment in '11)	937,052	0.2		0.0	0.0	5.3	7.8	16.6			15.7	Jul-11
Mesirow MFire Global (\$2m commitment in '11)	1,463,791	0.3		0.0	0.0	4.5	7.8	10.2			1.5	May-12
Cerberus (\$1.5m commitment in '12)	1,648,917	0.4		0.0	6.6	18.9	25.7				21.4	May-13
Realty Associates Fund X LP (\$3.5m commitment in '12)	3,650,151	0.8		0.0	3.7	11.0	14.8				10.8	May-13
TerraCap Partners III (Institutional), LP	2,551,805	0.6		0.0	0.0						0.0	Jul-15
NCREIF Property Index 1 Qtr Lag				0.0	3.1	10.1	13.0	11.6	12.7	8.2	3.1	Jul-15



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Total Private Equity	39,182,285	8.6	9.0	0.0	0.9	39.9	52.5	25.9	19.8	13.5	10.3	Apr-99
PRIM Vintage Year 2008 (\$3m commitment in '08)	2,005,354	0.4										
PRIM Vintage Year 2009 (\$1m commitment in '09)	331,519	0.1										
PRIM Vintage Year 2010 (\$1m commitment in '10)	813,435	0.2										
PRIM Vintage Year 2011 (\$1.5m commitment in '11)	1,039,081	0.2										
PRIM Vintage Year 2012 (\$1m commitment in '12)	455,620	0.1										
PRIM Vintage Year 2014 (\$2m commitment in '14)	343,337	0.1										
Alcentra European DLF (\$5m commitment in '14)	4,552,159	1.0		0.0	0.0	9.1			-		9.1	Jan-15
Ascent Fund II	65,716	0.0		0.0	0.0	24.5	43.4	27.6	16.8	15.5	15.2	Jan-99
Ascent Fund IV (\$2m commitment in '04)	798,998	0.2		0.0	0.0	-38.9	-43.0	-13.0	-13.0	-6.5	-6.0	Jul-04
Ascent Fund V (\$2m commitment in '08)	2,281,852	0.5		0.0	0.0	-0.6	-1.1	7.4	13.0		7.6	Oct-08
Ascent VI (\$3m commitment in '15)	240,000	0.1										Dec-15
Boston Capital	16,733	0.0		0.0	0.0	-5.4	-5.4	-11.2	6.8	16.6	8.8	Apr-99
Castile Ventures III, L.P. (\$3m commitment in '07)	1,072,599	0.2		0.0	-1.4	-17.8	-19.6	-14.3	-9.3		-10.4	Jan-08
Invesco Fund IV (\$3m commitment in '03)	1,465,198	0.3		0.0	0.0	2.3	13.0	17.8	17.5	15.0	11.1	Feb-04
Invesco Fund VI (\$5m commitment in '13)	3,470,368	8.0		0.0	0.0	9.2	26.3				16.6	Jul-13
Foundry 2007 (\$3m commitment in '07)	12,761,517	2.8		0.0	0.0	216.4	348.6	83.9	51.2		52.3	Dec-07
Foundry 2010 (\$3m commitment in '10)	3,679,158	0.8		0.0	2.6	6.2	17.7	18.8			12.9	Jan-11
Foundry 2010 Annex	188,520	0.0		0.0							0.0	Sep-15
Pinebridge PEP V (\$6m commitment in '07)	2,735,681	0.6		0.0	0.0	17.9	24.3	17.4	12.0		5.6	Mar-08
Landmark XV (\$3m commitment in '13)	865,438	0.2		0.0	0.0	15.8	0.1				19.2	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 8.6% for the month of current month.
- 5 Market values for Real Estate, with the exception of PRIT Core Real Estate, are as of 6/30/2015 adjusted for cash flows. PRIT Core Real Estate's market values are as of 10/31/2015.
- 6 Market values for Private Equity managers, with the exception of PRIM Vintage Year accounts, are as of 6/30/2015 adjusted for cash flows. PRIM Vintage Year accounts market values are as of 10/31/2015.



Information Disclaimer and Reporting Methodology

Information Disclaimer

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