

GOALS & OBJECTIVES

Investment Return Objective

"Its primary goal is to provide promised benefits to participants and beneficiaries of the MWRA Employees' Retirement system. Plan assets should be equal to or greater than the present value of the projected benefit obligations ("fully funded"). When Plan assets are less than the present value of projected benefit obligations, a schedule will be established and a plan will be in place to meet a fully funded status. When achieving return objectives required to fully fund the system, the Board is intent on controlling risk. Consistency of returns and risk of loss are primary considerations. The Board has also determined that the annual performance of plan assets should not vary substantially from returns achieved by other public pension funds with similar goals and objectives."

Return Expectations

The investment growth should be maintained in such a manner that the minimum nominal rate of return does not cause a negative real rate of return over a full market cycle:

- <u>Time Horizon:</u> Return assumptions will be based on a ten-year time horizon with a detailed review and analysis to be made at least annually to monitor allocations and assumptions. Should a manager deviate from proscribed mandate or expected risk and return profile by a consequential degree, that manager may be reevaluated at any time.
- <u>Liquidity Needs:</u> Presently contributions exceed plan withdrawals to provide benefits, payouts, and/or plan expenses. Portfolio liquidity will be managed based on the cash flow needs of the System.
- Regulatory Considerations: Assets of this Fund shall be invested in a manner consistent with the fiduciary standards established under Code of Massachusetts Regulations 840 ("840 CMR"). The Board shall also use as precedent the Employee Retirement Income Security Act (ERISA).



EXECUTIVE SUMMARY

	Market Value (\$)	1 Mo (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Composite	677,454,355	0.0	5.3	3.1	6.5	6.0	6.4	Feb-99
Allocation Index		-0.3	6.3	4.0	7.1	6.6	5.7	
Policy Index		-0.2	7.0	4.4	7.8	6.9	6.1	

20 years as of January 31, 2024						
	Return	Standard Deviation	Sharpe Ratio	Sortino Ratio		
Composite	6.6	8.5	0.9	0.9		
Allocation Index	6.3	8.0	0.9	0.9		
Policy Index	6.7	8.6	0.9	0.9		

Performance

- The Composite had a preliminary return of 0.0% (net) for the month, outperforming the Allocation Index of -0.3% and the Policy Index of -0.2%.
- In equities, the S&P 500 Index gained 1.7%, with the so-called Magnificent 7 companies contributing 0.7% of the broader index returns. Notably, small-cap equities underperformed with the Russell 2000 falling 3.9% as uncertainty surrounding interest rates weighed on sentiment. The portfolio's Domestic Equity composite returned 0.7% (net) and the Non-US Equity composite was up -1.5% (net).
- In fixed income, the Fed held rates steady at a range of 5.25%-5.50%, with Fed Chair Jerome Powell signaling that a rate cut at the next meeting in March is unlikely. As a result, longer-tenor interest rates rose with the 10-and 30-year Treasury yields rising seven and 16 basis points, respectively.. The Fixed Income composite returned 0.0% (net) for the month while the Bloomberg Agg and the Bloomberg US HY returned -0.3% and 0.0%, respectively.
- This brings the total plan return for the trailing one-year period to 5.3% (net), while the Allocation Index and Policy Index both returned 6.3% and 7.0%, respectively.

Returns for 20 years Risk/Return and Statistics Summary are gross of fees. Since inception return is 8.2% gross of fees. Prior to 1999, performance history does not capture separate net and gross returns.



		Allocation					Perform	nance (%)		
	Market Value (\$)	% of Portfolio	Policy(%)	1 Mo (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Composite	677,454,355	100.0	100.0	0.0	5.3	3.1	6.5	6.0	6.7	Jan-86
Allocation Index				-0.3	6.3	4.0	7.1	6.6		
Policy Index				-0.2	7.0	4.4	7.8	6.9		
Total Balanced	3,837,427	0.6	0.0	0.0	6.6	5.7	6.8	4.9	4.9	Dec-10
PRIT Core Fund	3,837,427	0.6	0.0	0.0	6.6	5.7	8.1	7.7	6.9	Apr-99
60% S&P 500 / 40% Bloomberg Aggregate				0.9	13.1	5.3	9.1	8.4	6.3	
Total Domestic Equity	208,149,397	30.7	31.0	0.7	12.4	6.4	11.5	10.4	7.6	May-99
Russell 3000 Index				1.1	19.1	9.1	13.5	12.0	7.5	
Large Cap	159,943,779	23.6	24.0	2.1	16.6	7.9	12.6	11.4	12.5	Dec-10
Rhumbline Advisors S&P 500 Index Fund	65,998,559	9.7	10.0	1.7	20.7	10.9	14.2	12.5	9.2	Apr-97
S&P 500 Index				1.7	20.8	11.0	14.3	12.6	9.2	
Coho Relative Value Equity	50,711,826	7.5	7.0	1.0	1.0	6.8	8.9		9.6	Mar-16
Russell 1000 Value Index				0.1	6.1	9.2	9.3		10.3	
Polen Focused Growth	43,233,394	6.4	7.0	4.0	29.9	4.5	13.8		14.5	Feb-16
Russell 1000 Growth Index				2.5	35.0	10.0	18.0		17.5	
Small Cap	48,205,618	7.1	7.0	-3.5	-0.6	1.6	7.8	7.8	10.4	Dec-10
Loomis Sayles Small Cap Growth	24,480,080	3.6	3.5	-2.3	1.8	-2.5	8.0	8.7	6.6	Jan-97
Russell 2000 Growth Index				-3.2	4.5	-6.0	6.2	7.0	6.6	
Mesirow Small Cap Value Equity CIT - Founders Class	23,725,538	3.5	3.5	-4.7					2.9	Apr-23
Russell 2000 Value Index				-4.5					10.2	
Total Non-US Equity	111,077,081	16.4	19.0	-1.5	0.1	-5.6	1.8	2.3	3.7	Mar-99
International Equity	73,300,845	10.8	12.0	-0.6	1.4	-3.9	3.8	3.2	3.3	Sep-05
SEG Baxter Street	30,700,919	4.5	5.0	0.5	-0.7	-3.6	3.8		5.8	May-16
MSCI AC World ex USA (Net)				-1.0	5.9	1.1	5.3		5.9	
Schroder International Alpha Trust Class 1	29,793,812	4.4	4.0	-0.4	6.5	1.4	8.3	5.9	6.6	Mar-12
MSCI AC World ex USA (Net)				-1.0	5.9	1.1	5.3	4.2	4.7	
Baillie Gifford International Growth Fund Class K	12,806,115	1.9	3.0	-3.6	-4.0	-14.1			-6.9	Oct-20
MSCI AC World ex USA (Net)				-1.0	5.9	1.1			6.0	

Since inception return is 6.7% Net of fees. Prior to 1999, performance history does not capture separate net and gross returns.

In November 2019, Loomis Sayles and Schroders transitioned from a mutual fund to a CIT structure. Performance prior to the transition to the CIT investment vehicle is linked to mutual fund performance history.

Preliminary performance is subject to change once finalized.



		Allocation					Perform	nance (%)		
	Market Value (\$)	% of Portfolio	Policy(%)	1 Mo (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Emerging Markets Equity	37,776,236	5.6	7.0	-3.1	-2.6				-10.9	Mar-21
Axiom Emerging Markets Trust Class 2	17,979,475	2.7		-2.4	-5.8				-13.5	Mar-21
MSCI Emerging Markets (Net)				-4.6	-2.9				-8.0	
ABS Emerging Markets MA Fund	19,796,760	2.9		-3.8	0.3				-7.8	Dec-21
MSCI Emerging Markets (Net)				-4.6	-2.9				-7.1	
Total Fixed Income	137,544,216	20.3	20.0	0.0	3.2	-1.5	2.4	2.6	5.6	Mar-99
Garcia Hamilton Fixed Income Aggregate	30,588,351	4.5	6.0	-0.5	0.5	-3.1	0.6		0.9	Apr-18
Blmbg. U.S. Aggregate Index				-0.3	2.1	-3.2	0.8		1.2	
Lord Abbett Core Fixed Income	39,647,984	5.9	4.0	-0.1	2.4	-2.9	1.1		1.4	Apr-18
Blmbg. U.S. Aggregate Index				-0.3	2.1	-3.2	0.8		1.2	
Loomis Sayles Multisector Full Discretion Trust	52,856,411	7.8	8.0	0.1	4.0	-1.5	3.2	3.2	6.8	Mar-99
Blmbg. U.S. Aggregate Index				-0.3	2.1	-3.2	0.8	1.6	3.9	
Blmbg. U.S. Corp: High Yield Index				0.0	9.3	1.9	4.4	4.5	6.3	
LMCG Serenitas Credit Gamma Offshore	14,436,285	2.1	2.0	0.5					3.0	Sep-23
HFRI Relative Value (Total) Index				0.7					3.7	
Blmbg. U.S. Aggregate Index				-0.3					3.8	
Invesco Mortgage Recovery Loans Feeder Fund	15,185	0.0		0.0	-0.9	-0.1	-1.0	4.9	9.1	Apr-10
Blmbg. U.S. Aggregate Index				-0.3	2.1	-3.2	0.8	1.6	2.3	
Total Hedge Fund	39,075,431	5.8	6.0	0.6	7.7	4.6	5.4	3.4	3.6	Oct-06
PRIM Portfolio Completion Strategies	12,348,898	1.8		0.2	7.2	5.3	4.8	4.1	4.0	Oct-06
Corbin Pinehurst Partners	14,390,044	2.1		1.5	11.5	4.0	6.2		6.0	Nov-18
HFRI Fund of Funds Composite Index				0.8	5.0	2.7	4.8		4.6	
UBS Neutral Alpha Strategies	12,287,896	1.8		0.0	4.5	6.4	6.8		6.3	Nov-18
HFRI Fund of Funds Composite Index				0.8	5.0	2.7	4.8		4.6	
Entrust Peru Wind Down	48,593	0.0		-0.6	-25.7	-59.9	-43.0		-37.2	Dec-17
HFRI Fund of Funds Composite Index				0.8	5.0	2.7	4.8		3.7	
Other	17,007,737	2.5	0.0	0.3	5.2	2.2	2.0	1.3	1.0	Dec-10
Cash Account	17,007,737	2.5		0.3	5.2	2.2	2.0	1.3	1.9	Feb-00
90 Day U.S. Treasury Bill				0.4	5.1	2.3	1.9	1.3	1.7	

Importantly, all returns in this report, including those of the private markets managers, are based on a time weighted return calculation and not based on IRRs, which can result in return differences.

Preliminary performance is subject to change once finalized.



		Allocation					Perforn	nance (%)		
	Market Value (\$)	% of Portfolio	Policy(%)	1 Mo (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Real Estate	68,140,811	10.1	12.0	0.0	-3.7	9.1	7.2	9.0	7.8	Apr-99
NCREIF Property Index				0.0	-7.9	4.6	4.3	6.8	8.0	
Morgan Stanley Prime Property (\$2.8m commitment in '95)	24,247,435	3.6		0.0	-3.7	7.5	5.9	8.5	8.3	Sep-95
TA Realty Core Property Fund, LP (\$15m commitment in '19)	24,791,248	3.7		0.0	-3.6	10.8			9.0	Jun-19
Invesco Mortgage Recovery II (\$3M commitment in '15)	599,654	0.1		0.0	-32.7	-17.0	-21.2		-8.5	Oct-15
Landmark VI (\$2m commitment in '11)	6,021	0.0		0.0	-6.9	-3.8	-9.6	-2.3	1.4	Jul-11
Landmark VIII (\$4m commitment in '17)	2,212,119	0.3		0.0	-3.4	14.5	11.7		15.0	Nov-17
StepStone Real Estate Fund II (\$2m commitment in '11)	348,139	0.1		0.0	-2.4	-1.1	-3.3	2.6	1.4	May-12
Cerberus Institutional Real Estate Partners III (\$1.5m commitment in '12)	502,381	0.1		0.0	7.9	19.6	15.8	13.8	14.4	May-13
TerraCap Partners III, LP (\$2.6m commitment in '15)	1,602,672	0.2		0.0	-0.5	8.0	6.0		9.8	Jul-15
TerraCap Partners IV, LP (\$4m commitment in '17)	3,509,679	0.5		0.0	-4.4	6.2	7.0		8.0	Nov-17
TerraCap Partners V, LP (\$8m commitment in '22)	8,321,463	1.2		0.0	-2.2				4.4	Jun-22
TA Realty Value XIII	2,000,000	0.3		0.0					0.0	Dec-23
Total Private Equity and Debt	92,622,257	13.7	12.0	-0.1	4.8	16.1	13.6	13.9	10.3	Apr-99
C A US All PE				0.0	5.9	13.4	15.0	13.2	12.8	
NASDAQ W/O Income				1.0	30.9	5.1	15.8	14.0	7.6	
PRIM Vintage Year 2008 (\$3m commitment in '08)	882,551	0.1		-0.1	24.7	20.1	15.1	18.3	10.7	Jun-08
PRIM Vintage Year 2009 (\$1m commitment in '09)	50,260	0.0		0.0	-0.6	14.1	23.6	22.9	12.6	Nov-09
PRIM Vintage Year 2010 (\$1m commitment in '10)	355,760	0.1		-0.1	-15.3	4.1	7.5	14.7	8.7	Jun-10
PRIM Vintage Year 2011 (\$1.5m commitment in '11)	690,064	0.1		-0.1	-2.8	24.7	18.4	21.5	8.8	May-11
PRIM Vintage Year 2012 (\$1m commitment in '12)	420,550	0.1		-0.5	1.4	2.8	10.0	12.4	-8.4	Jun-12
PRIM Vintage Year 2014 (\$2m commitment in '14)	1,895,489	0.3		-0.1	1.8	16.7	17.7		7.7	Jun-14
PRIM Vintage Year 2017 (\$2m commitment in '17)	2,606,063	0.4		-0.6	9.7	21.8	19.9		15.1	May-17
PRIM Vintage Year 2020 (\$5m commitment in '20)	4,532,492	0.7		-0.4	5.5	14.8			13.5	Mar-20
PRIM Vintage Year 2021 (\$5m commitment in '21)	4,061,442	0.6		0.0	10.4	2.5			2.4	Dec-20
PRIM Vintage Year 2022 (\$7.5m commitment in '22)	2,090,390	0.3		-0.6	6.3				0.1	Apr-22
PRIM Vintage Year 2023 (\$10m commitment in '23)	612,649	0.1		-0.1					-0.2	May-23
Alcentra European DLF (\$5m commitment in '14)	20,448	0.0		0.0	13.7	30.1	15.5		12.1	Jan-15
Ascent Fund IV-B (\$1m commitment in '16)	20,104	0.0		0.0	-2.1	-28.6	-29.0		-20.6	Jul-16
Ascent Fund V (\$2m commitment in '08)	1,299,603	0.2		0.0	3.0	2.0	-0.6	1.1	3.9	Oct-08
Ascent VI (\$3m commitment in '15)	3,119,079	0.5		0.0	-4.3	0.6	-1.5		0.4	Dec-15
CVI Credit Value Fund IV A LP (\$6m commitment in '17)	4,373,067	0.6		0.0	6.2	9.1	7.4		6.4	Dec-17
Invesco Fund VI (\$5m commitment in '13)	477,377	0.1		0.0	-29.3	-6.9	5.6	10.4	10.1	Jul-13

Importantly, all returns in this report, including those of the private real estate managers, are based on a time weighted return calculation and not based on IRRs, which can result in return differences.

Preliminary performance is subject to change once finalized.



	A	Allocation					Perform	nance (%)		
	Market Value (\$)	% of Portfolio	Policy(%)	1 Mo (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Kayne Energy Fund VII (\$5m commitment in '15)	2,765,200	0.4		0.0	11.1	36.0	-13.5		-2.5	Jan-16
Foundry 2007 (\$3m commitment in '07)	218,788	0.0		0.0	5.7	-10.2	-9.4	2.2	12.7	Dec-07
Foundry 2010 (\$3m commitment in '10)	3,830,853	0.6		0.0	-36.1	6.0	8.7	8.0	9.1	Feb-11
Foundry 2010 Annex (\$0.4m commitment in '15)	540,786	0.1		0.0	-50.9	13.3	33.7		24.7	Sep-15
Pinebridge PEP V (\$6.23m commitment in '07)	237,665	0.0		0.0	4.1	-2.4	3.9	6.1	6.8	Dec-10
Pinebridge (AIG) PEP V Asia (\$.55m commitment)	30,091	0.0		0.0	-5.2	-11.0	-12.6		-12.8	Oct-18
Pinebridge (AIG) PEP V Europe (\$1.6m commitment)	2,560	0.0		0.0	-2.3	-14.8	96.0		87.9	Oct-18
Pinebridge (AIG) PEP V Large Market US Buyout (\$.7m commitment)	50,760	0.0		0.0	32.9	9.9	16.1		12.4	Oct-18
Pinebridge (AIG) PEP V Preferred Participation Fund (\$.5m commitment)	59,357	0.0		0.0	-13.3	-16.6	-6.2		-7.5	Oct-18
Pinebridge (AIG) PEP V Secondary (\$.6m commitment)	14,546	0.0		0.0	-12.5	-16.4	-14.1		-11.6	Jan-17
Pinebridge (AIG) PEP V Small-Mid Market US Buyout (\$.9m commitment)	39,224	0.0		0.0	0.1	2.7	12.3		12.3	Oct-18
Pinebridge (AIG) PEP V US Venture (\$.48m commitment)	41,127	0.0		0.0	3.1	-4.0	-2.9		-4.7	Oct-18
Landmark XV (\$3m commitment in '13)	556,596	0.1		0.0	-4.8	-3.5	2.5	6.6	8.9	Nov-13
JFL Equity Investors IV, L.P. (\$6m commitment in '16)	2,816,100	0.4		0.0	54.7	40.3	40.0		39.1	Jan-17
Private Advisors Small Co. Coinvestment Fund, LP (\$4m commitment in '17)	5,202,408	0.8		0.0	21.4	18.1	21.0		19.7	Feb-17
Park Square Credit Opportunities III (\$3m commitment in '17)	2,791,720	0.4		0.0	7.7	7.4	8.1		7.1	Feb-18
Ironsides Constitution Opportunities (\$3m commitment in '18)	1,487,561	0.2		0.0	8.4	9.4	11.6		10.9	Oct-18
HarbourVest Dover Street X (\$9m commitment in '20)	7,392,375	1.1		0.0	2.7	23.1			43.4	Jun-20
Hamilton Lane Secondary Fund V LP (\$9m commitment in '20)	6,890,855	1.0		0.0	2.0	18.6			23.8	Jul-20
Constitution Ironsides Co-Investment Fund VI (\$12m commitment in '21)	12,936,538	1.9		0.0	6.3				3.8	Nov-21
HarbourVest Co-Investment Fund VI (\$8m commitment in '21)	5,807,700	0.9		0.0	8.4					Jan-22
JFL Equity Investors V, L.P. (\$9m commitment in '20)	11,639,722	1.7		0.0	19.4	15.6			10.1	Sep-20

Importantly, all returns in this report, including those of the private markets managers, are based on a time weighted return calculation and not based on IRRs, which can result in return differences.



NOTES

- 1 Results for periods longer than one year are annualized.
- 2 Total Balances, Large Cap, Small Cap, and Other Composite performance starts 12/1/2010.
- 3 Preliminary Total Composite net of fee since inception return is 6.7% for the current month.
- 4 Preliminary Total Composite gross of fee since inception return is 8.2% for the current month.
- 5 Targets, Allocation Index, and Policy Index have been updated to reflect new allocation of 02/01/2022.
- 6 Policy Index changed from Nasdaq to Cambridge All PE to reflect as of 5/1/2012.
- 7 Policy Index Consists of: 24% S&P 500, 7% Russell 2000, 12% MSCI ACWI IMI, 7% MSCI Emerging Markets, 12% Bloomberg US Aggregate TR, 8% Bloomberg US Universal TR, 6% HFRI Fund of Funds Composite Index, 12% NCREIF Property Index, 12% CJA US All PE.
- 8 Allocation index consists of: Weighted index of underlying managers to their respective benchmark.
- 9 All Private Market managers are final as of 9/30/23 and preliminary as of 12/31/23, but Step Stone RE II is final as of 6/30.



FEE SCHEDULE

Account Name	Fee Schedule	Market Value (\$)	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
PRIT Core Fund	0.49 % of Assets	3,837,427	0.57	18,803	0.49
Rhumbline Advisors S&P 500 Index Fund	0.04 % of Assets	65,998,559	9.74	26,399	0.04
Coho Relative Value Equity	0.50 % of First \$75 M 0.40 % of Next \$75 M 0.35 % Thereafter	50,711,826	7.49	253,559	0.50
Polen Focused Growth	0.65 % of Assets	43,233,394	6.38	281,017	0.65
Loomis Sayles Small Cap Growth	0.45 % of Assets Minimum Fee: \$45,000	24,480,080	3.61	110,160	0.45
SEG Baxter Street	1.00 % of Assets	30,700,919	4.53	307,009	1.00
Schroder International Alpha Trust Class 1	0.55 % of Assets	29,793,812	4.40	163,866	0.55
Baillie Gifford International Growth Fund Class K	0.60 % of Assets	12,806,115	1.89	76,837	0.60
Axiom Emerging Markets Trust Class 2	0.77 % of Assets	17,979,475	2.65	138,442	0.77
ABS Emerging Markets MA Fund	0.75 % of Assets	19,796,760	2.92	148,476	0.75
Garcia Hamilton Fixed Income Aggregate		30,588,351	4.52	38,235	0.13
Lord Abbett Core Fixed Income	0.19 % of Assets	39,647,984	5.85	75,331	0.19
Loomis Sayles Multisector Full Discretion Trust	0.39 % of First \$50 M 0.30 % Thereafter	52,856,411	7.80	203,569	0.39
Mesirow Small Cap Value Equity CIT - Founders Class	0.45 % of Assets	23,725,538	3.50	106,765	0.45
Invesco Mortgage Recovery Loans Feeder Fund		15,185	0.00		
PRIM Portfolio Completion Strategies		12,348,898	1.82		
Corbin Pinehurst Partners	0.85 % of Assets	14,390,044	2.12	122,315	0.85
UBS Neutral Alpha Strategies	0.90 % of Assets	12,287,896	1.81	110,591	0.90
Entrust Peru Wind Down	0.50 % of Assets	48,593	0.01	243	0.50
LMCG Serenitas Credit Gamma Offshore	Performance Based 1.50 and 20.00	14,436,285	2.13	216,544	1.50
Cash Account		17,007,737	2.51		
Morgan Stanley Prime Property (\$2.8m commitment in '95)		24,247,435	3.58		
TA Realty Core Property Fund, LP (\$15m commitment in '19)		24,791,248	3.66		
TA Realty Value XIII		2,000,000	0.30		
Invesco Mortgage Recovery II (\$3M commitment in '15)		599,654	0.09		
Landmark VI (\$2m commitment in '11)		6,021	0.00		
Landmark VIII (\$4m commitment in '17)		2,212,119	0.33		
StepStone Real Estate Fund II (\$2m commitment in '11)		348,139	0.05		
Cerberus Institutional Real Estate Partners III (\$1.5m commitment in '12)		502,381	0.07		
TerraCap Partners III, LP (\$2.6m commitment in '15)		1,602,672	0.24		



FEE SCHEDULE

Account Name	Fee Schedule	Market Value (\$)	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
TerraCap Partners IV, LP (\$4m commitment in '17)		3,509,679	0.52		
TerraCap Partners V, LP (\$8m commitment in '22)		8,321,463	1.23		
PRIM Vintage Year 2008 (\$3m commitment in '08)		882,551	0.13		
PRIM Vintage Year 2009 (\$1m commitment in '09)		50,260	0.01		
PRIM Vintage Year 2010 (\$1m commitment in '10)		355,760	0.05		
PRIM Vintage Year 2011 (\$1.5m commitment in '11)		690,064	0.10		
PRIM Vintage Year 2012 (\$1m commitment in '12)		420,550	0.06		
PRIM Vintage Year 2014 (\$2m commitment in '14)		1,895,489	0.28		
PRIM Vintage Year 2017 (\$2m commitment in '17)		2,606,063	0.38		
PRIM Vintage Year 2020 (\$5m commitment in '20)		4,532,492	0.67		
PRIM Vintage Year 2021 (\$5m commitment in '21)		4,061,442	0.60		
PRIM Vintage Year 2022 (\$7.5m commitment in '22)		2,090,390	0.31		
PRIM Vintage Year 2023 (\$10m commitment in '23)		612,649	0.09		
Alcentra European DLF (\$5m commitment in '14)		20,448	0.00		
Ascent Fund IV-B (\$1m commitment in '16)		20,104	0.00		
Ascent Fund V (\$2m commitment in '08)		1,299,603	0.19		
Ascent VI (\$3m commitment in '15)		3,119,079	0.46		
CVI Credit Value Fund IV A LP (\$6m commitment in '17)		4,373,067	0.65		
Invesco Fund VI (\$5m commitment in '13)		477,377	0.07		
Kayne Energy Fund VII (\$5m commitment in '15)		2,765,200	0.41		
Foundry 2007 (\$3m commitment in '07)		218,788	0.03		
Foundry 2010 (\$3m commitment in '10)		3,830,853	0.57		
Foundry 2010 Annex (\$0.4m commitment in '15)		540,786	0.08		
Pinebridge (AIG) PEP V Asia (\$.55m commitment)		30,091	0.00		
Pinebridge (AIG) PEP V Europe (\$1.6m commitment)		2,560	0.00		
Pinebridge (AIG) PEP V Large Market US Buyout (\$.7m commitment)		50,760	0.01		
Pinebridge (AIG) PEP V Preferred Participation Fund (\$.5m commitment)		59,357	0.01		
Pinebridge (AIG) PEP V Secondary (\$.6m commitment)		14,546	0.00		
Pinebridge (AIG) PEP V Small-Mid Market US Buyout (\$.9m commitment)		39,224	0.01		
Pinebridge (AIG) PEP V US Venture (\$.48m commitment)		41,127	0.01		
Landmark XV (\$3m commitment in '13)		556,596	0.08		
JFL Equity Investors IV, L.P. (\$6m commitment in '16)		2,816,100	0.42		
Private Advisors Small Co. Coinvestment Fund, LP (\$4m commitment in '17)		5,202,408	0.77		
Park Square Credit Opportunities III (\$3m commitment in '17)		2,791,720	0.41		



FEE SCHEDULE

Account Name	Fee Schedule	Market Value (\$)	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Ironsides Constitution Opportunities (\$3m commitment in '18)		1,487,561	0.22		
HarbourVest Dover Street X (\$9m commitment in '20)		7,392,375	1.09		
Hamilton Lane Secondary Fund V LP (\$9m commitment in '20)		6,890,855	1.02		
Constitution Ironsides Co-Investment Fund VI (\$12m commitment in '21)		12,936,538	1.91		
JFL Equity Investors V, L.P. (\$9m commitment in '20)		11,639,722	1.72		
HarbourVest Co-Investment Fund VI (\$8m commitment in '21)		5,807,700	0.86		
Investment Management Fee		677,454,355	100.00	2,398,163	0.35



DISCLAIMERS & DISCLOSURES

Past performance is no guarantee of future results.

Returns for pooled funds, e.g. mutual funds and collective investment trusts, are collected from third parties; they are not generally calculated by NEPC. Returns for separate accounts, with some exceptions, are calculated by NEPC. Returns are reported net of manager fees unless otherwise noted.

A "since inception" return, if reported, begins with the first full month after funding, although actual inception dates (e.g. the middle of a month) and the timing of cash flows are taken into account in Composite return calculations.

NEPC's preferred data source is the plan's custodian bank or record-keeper. If data cannot be obtained from one of the preferred data sources, data provided by investment managers may be used. Information on market indices and security characteristics is received from additional providers. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within. In addition, some index returns displayed in this report or used in calculation of a policy index, allocation index or other custom benchmark may be preliminary and subject to change.

All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.

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Source of private fund performance benchmark data: Cambridge Associates, via Refinitiv

