

# FUND EVALUATION REPORT

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## District of Columbia Retirement Board

Quarterly Summary  
September 30, 2017



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As of September 30, 2017

## Allocation vs. Targets and Policy

	Current Balance	Current Allocation	Policy	Policy Range
US Equity	\$1,723,893,003	22%	20%	15% - 25%
Developed Market Equity	\$1,484,662,224	19%	16%	12% - 20%
Emerging Market Equity	\$898,788,105	12%	10%	7% - 13%
Investment Grade Bonds	\$782,209,750	10%	11%	7% - 15%
TIPS	\$539,795,370	7%	6%	4% - 8%
Foreign Bonds	\$176,567,983	2%	2%	1% - 3%
Emerging Market Bonds	\$322,430,246	4%	4%	2% - 6%
High Yield Bonds	\$305,634,090	4%	4%	2% - 6%
Bank Loans	\$229,339,017	3%	3%	2% - 5%
Private Equity	\$308,138,408	4%	9%	5% - 13%
Real Estate	\$430,308,477	6%	6%	4% - 8%
Natural Resources	\$77,635,102	1%	2%	1% - 5%
Infrastructure	\$116,384,571	2%	3%	1% - 5%
Absolute Return	\$292,585,437	4%	4%	3% - 6%
Cash	\$60,705,201	1%	0%	0% - 5%
<b>Total</b>	<b>\$7,749,076,984</b>	<b>100%</b>	<b>100%</b>	

## Total Fund Aggregate

As of September 30, 2017

## Market Value Summary

	Market Value 6/30/17 (\$)	Market Value 9/30/17 (\$)	% of Sector	% of Portfolio
<b>Total Fund Aggregate</b>	<b>7,485,023,391</b>	<b>7,749,076,984</b>	<b>--</b>	<b>100.0</b>
<b>Domestic Equity</b>	<b>1,667,691,836</b>	<b>1,723,893,003</b>	<b>22.2</b>	<b>22.2</b>
Northern Trust Russell 3000 Index	1,361,805,917	1,424,007,846	82.6	18.4
Sands Large Cap Growth Equity	146,734,917	132,240,924	7.7	1.7
Channing Small Cap Value Equity	159,151,002	167,644,233	9.7	2.2
<b>International Developed Market Equity</b>	<b>1,424,890,899</b>	<b>1,484,662,224</b>	<b>19.2</b>	<b>19.2</b>
SSgA MSCI World (ex U.S.) Index	1,126,745,025	1,170,478,037	78.8	15.1
Copper Rock International Small Cap	142,928,350	153,678,133	10.4	2.0
Altrinsic International Equity	155,217,524	160,506,054	10.8	2.1
<b>International Emerging Market Equity</b>	<b>890,710,555</b>	<b>898,788,105</b>	<b>11.6</b>	<b>11.6</b>
SSgA MSCI Emerging Markets Index	726,799,893	725,094,670	80.7	9.4
LSV Emerging Markets Value Equity	163,910,662	173,693,435	19.3	2.2
<b>Fixed Income</b>	<b>2,285,540,573</b>	<b>2,355,976,456</b>	<b>30.4</b>	<b>30.4</b>
BlackRock US Debt Index	775,508,675	782,209,750	33.2	10.1
BlackRock U.S. TIPS	505,504,084	539,795,370	22.9	7.0
DDJ High Yield Bond	294,029,221	305,634,090	13.0	3.9
Stone Harbor Emerging Markets Local Currency Debt	310,591,393	322,430,246	13.7	4.2
Mondrian International Fixed Income	172,153,658	176,567,983	7.5	2.3
Beach Point Loan Fund	227,753,542	229,339,017	9.7	3.0



## Total Fund Aggregate

As of September 30, 2017

	Market Value 6/30/17 (\$)	Market Value 9/30/17 (\$)	% of Sector	% of Portfolio
<b>Absolute Return</b>	<b>291,365,863</b>	<b>292,585,437</b>	<b>3.8</b>	<b>3.8</b>
Bridgewater Pure Alpha	291,365,863	292,585,437	100.0	3.8
<b>Private Equity</b>	<b>309,082,205</b>	<b>308,138,408</b>	<b>4.0</b>	<b>4.0</b>
<b>Real Assets</b>	<b>593,550,383</b>	<b>624,328,150</b>	<b>8.1</b>	<b>8.1</b>
<b>Real Estate</b>	<b>410,042,911</b>	<b>430,308,477</b>	<b>68.9</b>	<b>5.6</b>
Northern Trust Global Real Estate Index Fund	276,667,680	285,652,469	66.4	3.7
Private Real Estate	133,375,231	144,656,008	33.6	1.9
<b>Infrastructure</b>	<b>111,051,952</b>	<b>116,384,571</b>	<b>18.6</b>	<b>1.5</b>
<b>Natural Resources</b>	<b>72,455,520</b>	<b>77,635,102</b>	<b>12.4</b>	<b>1.0</b>
<b>Cash</b>	<b>22,191,077</b>	<b>60,705,201</b>	<b>0.8</b>	<b>0.8</b>
Northern Trust STIF	22,191,077	60,705,201	100.0	0.8

As of September 30, 2017

## Asset Class Performance Summary

	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	20 Yrs (%)	Return (%)	Since
<b>Total Fund Aggregate (Gross of Fees)</b>	<b>7,749,076,984</b>	<b>100.0</b>	<b>4.0</b>	<b>13.0</b>	<b>13.0</b>	<b>5.9</b>	<b>7.5</b>	<b>4.2</b>	<b>6.0</b>	<b>8.8</b>	<b>Oct-82</b>
<b>Total Fund Aggregate</b>			<b>4.0</b>	<b>12.9</b>	<b>12.9</b>	<b>5.8</b>	<b>7.4</b>	<b>4.0</b>	<b>5.8</b>	--	
<i>Interim Policy Benchmark</i>			3.9	12.7	12.7	5.9	7.5	4.3	6.4	9.9	Oct-82
<i>Long-Term Policy Benchmark</i>			3.8	12.6	12.6	6.3	7.5	4.3	6.0	9.7	Oct-82
<i>60% MSCI ACWI / 40% Barclays Global Aggregate</i>			3.8	10.3	10.3	5.1	6.3	4.0	5.5	--	Oct-82
<b>Domestic Equity</b>	<b>1,723,893,003</b>	<b>22.2</b>	<b>4.8</b>	<b>19.0</b>	<b>19.0</b>	<b>10.5</b>	<b>14.2</b>	<b>7.3</b>	<b>7.2</b>	<b>10.7</b>	<b>Oct-82</b>
<i>Russell 3000</i>			4.6	18.7	18.7	10.7	14.2	7.6	7.2	11.7	Oct-82
<b>International Developed Market Equity</b>	<b>1,484,662,224</b>	<b>19.2</b>	<b>5.6</b>	<b>18.6</b>	<b>18.6</b>	<b>5.6</b>	<b>8.6</b>	<b>2.2</b>	<b>5.0</b>	<b>6.0</b>	<b>Apr-87</b>
<i>International Developed Equity Custom Benchmark</i>			5.6	18.7	18.7	4.6	7.8	1.7	5.0	5.6	Apr-87
<b>International Emerging Market Equity</b>	<b>898,788,105</b>	<b>11.6</b>	<b>7.7</b>	<b>22.4</b>	<b>22.4</b>	<b>4.5</b>	<b>3.9</b>	--	--	<b>3.1</b>	<b>Sep-11</b>
<i>MSCI Emerging Markets</i>			7.9	22.5	22.5	4.9	4.0	1.3	6.4	3.2	Sep-11
<b>Fixed Income</b>	<b>2,355,976,456</b>	<b>30.4</b>	<b>1.5</b>	<b>2.8</b>	<b>2.8</b>	<b>2.4</b>	<b>1.8</b>	<b>4.0</b>	<b>5.3</b>	<b>7.4</b>	<b>Dec-82</b>
<i>DCRB Fixed Income Custom Benchmark</i>			1.3	2.1	2.1	2.7	1.9	4.3	5.1	7.3	Dec-82
<b>Absolute Return</b>	<b>292,585,437</b>	<b>3.8</b>	<b>3.7</b>	<b>13.1</b>	<b>13.1</b>	<b>3.3</b>	<b>3.1</b>	<b>7.1</b>	--	<b>6.6</b>	<b>Jul-06</b>
<i>HFRI Macro (Total) Index</i>			0.6	-0.8	-0.8	0.6	0.7	2.0	5.4	2.8	Jul-06
<i>Spliced Hedge Fund Benchmark</i>			1.6	6.2	6.2	5.7	4.5	2.8	3.3	3.1	Jul-06
<b>Private Equity</b>	<b>308,138,408</b>	<b>4.0</b>	<b>5.5</b>	<b>15.3</b>	<b>15.3</b>	<b>6.2</b>	<b>10.7</b>	<b>7.1</b>	<b>6.6</b>	<b>8.1</b>	<b>Jan-87</b>
<i>Cambridge Spliced US/Global PE &amp; VC Index</i>			4.5	15.8	15.8	9.2	12.8	8.3	13.1	14.1	Jan-87
<i>Russell/MSCI+3% Index (1 Quarter Lagged)</i>			5.0	22.3	22.3	8.0	13.8	6.6	8.7	12.3	Jan-87

Note: Market values and performance for the Private Equity and Real Assets portfolios and benchmarks are reported one quarter lagged, adjusted for current quarter cash flows. The REIT portfolio is reported in real time.

## Total Fund Aggregate

As of September 30, 2017

	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	20 Yrs (%)	Return (%)	Since
<b>Real Assets</b>	<b>624,328,150</b>	<b>8.1</b>	<b>2.8</b>	<b>9.8</b>	<b>9.8</b>	<b>9.7</b>	<b>9.2</b>	<b>2.7</b>	<b>4.2</b>	<b>4.4</b>	<b>Mar-96</b>
Interim Real Assets Benchmark			2.9	10.4	10.4	6.1	7.9	--	--	--	Mar-96
CPI + 5.5%			1.7	7.3	7.3	6.9	7.1	7.2	7.5	7.5	Mar-96
<b>Real Estate</b>	<b>430,308,477</b>	<b>5.6</b>	<b>2.9</b>	<b>6.6</b>	<b>6.6</b>	<b>8.9</b>	<b>8.6</b>	<b>1.4</b>	<b>3.7</b>	<b>2.4</b>	<b>Apr-88</b>
Interim Real Estate Benchmark			3.7	8.9	8.9	9.8	10.7	1.6	--	--	Apr-88
Long Term Real Estate Benchmark			4.1	12.8	12.8	11.3	11.5	3.2	9.6	8.0	Apr-88
Private Real Estate	144,656,008	1.9	2.2	8.6	8.6	10.7	10.4	3.0	4.0	2.6	Apr-88
Cambridge Real Estate (1 Quarter Lagged)			4.2	14.8	14.8	12.1	12.7	2.3	9.8	8.3	Apr-88
<b>Infrastructure</b>	<b>116,384,571</b>	<b>1.5</b>	<b>4.3</b>	<b>5.2</b>	<b>5.2</b>	<b>10.2</b>	<b>9.3</b>	<b>--</b>	<b>--</b>	<b>8.3</b>	<b>Jun-08</b>
Cambridge Infrastructure (1 Quarter Lagged)			3.0	11.2	11.2	8.8	9.3	6.1	4.6	5.5	Jun-08
<b>Natural Resources</b>	<b>77,635,102</b>	<b>1.0</b>	<b>-0.2</b>	<b>35.3</b>	<b>35.3</b>	<b>5.5</b>	<b>12.9</b>	<b>--</b>	<b>--</b>	<b>12.9</b>	<b>Oct-12</b>
CA Energy Upstream, Royalties, and PE (1 Quarter Lagged)			-0.4	14.4	14.4	-13.5	-6.3	0.9	9.1	-6.3	Oct-12
<b>Cash</b>	<b>60,705,201</b>	<b>0.8</b>	<b>0.3</b>	<b>1.0</b>	<b>1.0</b>	<b>0.5</b>	<b>0.3</b>	<b>0.7</b>	<b>2.4</b>	<b>3.9</b>	<b>Jul-89</b>
91 Day T-Bills			0.3	0.7	0.7	0.3	0.2	0.4	2.0	2.9	Jul-89

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