

# FUND EVALUATION REPORT

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## District of Columbia Retirement Board

Quarterly Summary  
December 31, 2018



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BOSTON  
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As of December 31, 2018

## Allocation vs. Targets and Policy

	Current Balance	Current Allocation	Policy	Policy Range
US Equity	\$1,599,778,670	21%	20%	15% - 25%
Developed Market Equity	\$1,332,499,604	17%	16%	12% - 20%
Emerging Market Equity	\$883,530,563	11%	10%	7% - 13%
Investment Grade Bonds	\$881,413,377	11%	11%	7% - 15%
TIPS	\$569,341,760	7%	6%	4% - 8%
Foreign Bonds	\$177,668,129	2%	2%	1% - 3%
Emerging Market Bonds	\$338,597,931	4%	4%	2% - 6%
High Yield Bonds	\$291,515,504	4%	4%	2% - 6%
Bank Loans	\$286,466,868	4%	3%	2% - 5%
Private Equity	\$382,821,089	5%	9%	5% - 13%
Real Estate	\$408,730,307	5%	6%	5% - 7%
Natural Resources	\$124,559,458	2%	2%	1% - 3%
Infrastructure	\$151,168,429	2%	3%	2% - 4%
Absolute Return	\$327,974,499	4%	4%	1% - 7%
Cash	\$36,010,625	0%	0%	0% - 2%
<b>Total</b>	<b>\$7,792,076,813</b>	<b>100%</b>	<b>100%</b>	

## Total Fund Aggregate

As of December 31, 2018

## Market Value Summary

	Market Value 9/30/18 (\$)	Market Value 12/31/18 (\$)	% of Sector	% of Portfolio
<b>Total Fund Aggregate</b>	<b>8,197,698,028</b>	<b>7,792,076,813</b>	<b>--</b>	<b>100.0</b>
<b>Domestic Equity</b>	<b>1,788,120,237</b>	<b>1,599,778,670</b>	<b>20.5</b>	<b>20.5</b>
Northern Trust Russell 3000 Index	1,481,549,817	1,338,387,960	83.7	17.2
Sands Large Cap Growth Equity	124,226,411	102,454,279	6.4	1.3
Channing Small Cap Value Equity	182,344,009	158,936,431	9.9	2.0
<b>International Developed Market Equity</b>	<b>1,494,339,022</b>	<b>1,332,499,604</b>	<b>17.1</b>	<b>17.1</b>
SSgA MSCI World (ex U.S.) Index	1,327,669,408	1,158,287,639	86.9	14.9
Altrinsic International Equity	166,669,614	174,211,965	13.1	2.2
<b>International Emerging Market Equity</b>	<b>930,505,388</b>	<b>883,530,563</b>	<b>11.3</b>	<b>11.3</b>
SSgA MSCI Emerging Markets Index	736,606,494	681,645,250	77.2	8.7
LSV Emerging Markets Value Equity	193,898,894	201,885,313	22.8	2.6
<b>Fixed Income</b>	<b>2,570,181,857</b>	<b>2,545,003,569</b>	<b>32.7</b>	<b>32.7</b>
BlackRock US Debt Index	901,945,927	881,413,377	34.6	11.3
BlackRock U.S. TIPS	607,136,697	569,341,760	22.4	7.3
DDJ High Yield Bond	286,049,008	291,515,504	11.5	3.7
Stone Harbor Emerging Markets Local Currency Debt	318,731,447	338,597,931	13.3	4.3
Mondrian International Fixed Income	176,108,228	177,668,129	7.0	2.3
Beach Point Loan Fund	280,210,550	286,466,868	11.3	3.7

## Total Fund Aggregate

As of December 31, 2018

	Market Value 9/30/18 (\$)	Market Value 12/31/18 (\$)	% of Sector	% of Portfolio
<b>Absolute Return</b>	<b>305,955,923</b>	<b>327,974,499</b>	<b>4.2</b>	<b>4.2</b>
Bridgewater Pure Alpha	305,955,923	327,974,499	100.0	4.2
<b>Private Equity</b>	<b>365,613,571</b>	<b>382,821,089</b>	<b>4.9</b>	<b>4.9</b>
<b>Real Assets</b>	<b>708,053,824</b>	<b>684,458,194</b>	<b>8.8</b>	<b>8.8</b>
<b>Real Estate</b>	<b>448,501,902</b>	<b>408,730,307</b>	<b>59.7</b>	<b>5.2</b>
<b>Public Real Estate</b>	<b>274,885,462</b>	<b>232,287,677</b>	<b>56.8</b>	<b>3.0</b>
Northern Trust Global Real Estate Index Fund	274,885,462	232,287,677	100.0	3.0
<b>Private Real Estate</b>	<b>173,616,440</b>	<b>176,442,630</b>	<b>43.2</b>	<b>2.3</b>
<b>Infrastructure</b>	<b>144,278,586</b>	<b>151,168,429</b>	<b>22.1</b>	<b>1.9</b>
<b>Natural Resources</b>	<b>115,273,336</b>	<b>124,559,458</b>	<b>18.2</b>	<b>1.6</b>
<b>Cash</b>	<b>34,928,206</b>	<b>36,010,625</b>	<b>0.5</b>	<b>0.5</b>
Northern Trust STIF	34,928,206	36,010,625	100.0	0.5

As of December 31, 2018

## Asset Class Performance Summary

	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	20 Yrs (%)	Inception (%)	Inception Date
<b>Total Fund Aggregate (Gross of Fees)</b>	<b>7,792,076,813</b>	<b>100.0</b>	<b>-6.2</b>	<b>-6.2</b>	<b>-4.6</b>	<b>6.3</b>	<b>4.1</b>	<b>7.7</b>	<b>5.3</b>	<b>8.5</b>	<b>Oct-82</b>
<b>Total Fund Aggregate</b>			<b>-6.2</b>	<b>-6.2</b>	<b>-4.7</b>	<b>6.2</b>	<b>4.0</b>	<b>7.6</b>	<b>5.0</b>	<b>--</b>	
<i>Interim Policy Benchmark</i>			-6.4	-6.4	-4.7	6.4	4.2	7.6	5.4	9.5	Oct-82
<i>Long-Term Policy Benchmark</i>			-6.7	-6.7	-4.5	6.3	4.3	8.0	5.0	9.3	Oct-82
<i>60% MSCI ACWI / 40% Barclays Global Aggregate</i>			-7.3	-7.3	-6.0	5.2	3.1	6.8	4.5	--	Oct-82
<b>Domestic Equity</b>	<b>1,599,778,670</b>	<b>20.5</b>	<b>-15.3</b>	<b>-15.3</b>	<b>-5.7</b>	<b>8.6</b>	<b>7.5</b>	<b>13.4</b>	<b>6.2</b>	<b>10.3</b>	<b>Oct-82</b>
<i>Russell 3000</i>			-14.3	-14.3	-5.2	9.0	7.9	13.2	6.0	11.3	Oct-82
<b>International Developed Market Equity</b>	<b>1,332,499,604</b>	<b>17.1</b>	<b>-12.4</b>	<b>-12.4</b>	<b>-13.1</b>	<b>3.6</b>	<b>1.1</b>	<b>7.8</b>	<b>4.5</b>	<b>5.4</b>	<b>Apr-87</b>
<i>International Developed Equity Custom Benchmark</i>			-12.8	-12.8	-14.1	3.1	0.3	7.0	3.9	5.0	Apr-87
<b>International Emerging Market Equity</b>	<b>883,530,563</b>	<b>11.3</b>	<b>-7.2</b>	<b>-7.2</b>	<b>-14.5</b>	<b>9.2</b>	<b>1.4</b>	<b>--</b>	<b>--</b>	<b>1.3</b>	<b>Sep-11</b>
<i>MSCI Emerging Markets</i>			-7.5	-7.5	-14.6	9.2	1.6	8.0	8.5	1.5	Sep-11
<b>Fixed Income</b>	<b>2,545,003,569</b>	<b>32.7</b>	<b>0.0</b>	<b>0.0</b>	<b>-1.2</b>	<b>3.6</b>	<b>2.0</b>	<b>4.4</b>	<b>4.7</b>	<b>7.1</b>	<b>Dec-82</b>
<i>DCRB Fixed Income Custom Benchmark</i>			0.0	0.0	-1.3	3.5	2.2	3.7	4.5	7.0	Dec-82
<b>Absolute Return</b>	<b>327,974,499</b>	<b>4.2</b>	<b>7.2</b>	<b>7.2</b>	<b>9.4</b>	<b>4.4</b>	<b>3.9</b>	<b>6.7</b>	<b>--</b>	<b>6.5</b>	<b>Jul-06</b>
<i>HFRI Macro (Total) Index</i>			-2.2	-2.2	-4.0	-0.3	0.7	1.1	4.9	2.4	Jul-06
<i>Spliced Hedge Fund Benchmark</i>			1.9	1.9	7.3	6.4	5.9	3.2	3.4	3.4	Jul-06
<b>Private Equity</b>	<b>382,821,089</b>	<b>4.9</b>	<b>0.8</b>	<b>0.8</b>	<b>8.7</b>	<b>10.9</b>	<b>9.5</b>	<b>8.8</b>	<b>6.3</b>	<b>8.2</b>	<b>Jan-87</b>
<i>Cambridge Spliced US/Global PE &amp; VC Index</i>			3.5	3.5	17.2	13.9	13.3	11.1	12.9	14.2	Jan-87
<i>Russell/MSCI+3% Index (1 Quarter Lagged)</i>			5.0	5.0	13.0	16.8	11.9	11.4	8.8	12.4	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 December 31, 2018

	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	20 Yrs (%)	Inception (%)	Inception Date
<b>Real Assets</b>	<b>684,458,194</b>	<b>8.8</b>	<b>-0.8</b>	<b>-0.8</b>	<b>1.6</b>	<b>8.2</b>	<b>8.1</b>	<b>4.4</b>	<b>4.0</b>	<b>4.4</b>	<b>Mar-96</b>
Interim Real Assets Benchmark			-0.8	-0.8	3.7	8.7	7.2	--	--	--	Mar-96
CPI + 5.5% (1Q Lagged)			1.5	1.5	7.9	7.6	7.1	7.0	7.8	7.8	Mar-96
<b>Real Estate</b>	<b>408,730,307</b>	<b>5.2</b>	<b>-3.2</b>	<b>-3.2</b>	<b>-0.5</b>	<b>6.1</b>	<b>6.8</b>	<b>3.1</b>	<b>3.4</b>	<b>2.3</b>	<b>Apr-88</b>
Interim Real Estate Benchmark			-2.8	-2.8	-0.8	7.0	8.4	3.7	--	--	Apr-88
Long Term Real Estate Benchmark			-0.9	-0.9	5.3	9.8	10.8	6.0	9.4	8.0	Apr-88
<b>Public Real Estate</b>	<b>232,287,677</b>	<b>3.0</b>	<b>-4.9</b>	<b>-4.9</b>	<b>-5.4</b>	<b>4.3</b>	<b>5.2</b>	<b>10.4</b>	<b>--</b>	<b>5.5</b>	<b>Apr-05</b>
Public Real Estate Benchmark			-5.0	-5.0	-6.4	3.5	4.5	10.4	--	6.2	Apr-05
<b>Private Real Estate</b>	<b>176,442,630</b>	<b>2.3</b>	<b>-0.5</b>	<b>-0.5</b>	<b>9.6</b>	<b>8.9</b>	<b>9.3</b>	<b>3.8</b>	<b>4.0</b>	<b>2.8</b>	<b>Apr-88</b>
Cambridge Real Estate (1 Quarter Lagged)			1.4	1.4	9.5	10.8	11.9	4.3	9.1	8.3	Apr-88
<b>Infrastructure</b>	<b>151,168,429</b>	<b>1.9</b>	<b>1.8</b>	<b>1.8</b>	<b>1.2</b>	<b>7.7</b>	<b>8.6</b>	<b>7.3</b>	<b>--</b>	<b>7.6</b>	<b>Jun-08</b>
Cambridge Infrastructure (1 Quarter Lagged)			2.2	2.2	9.2	12.5	10.4	6.8	6.7	6.3	Jun-08
<b>Natural Resources</b>	<b>124,559,458</b>	<b>1.6</b>	<b>4.8</b>	<b>4.8</b>	<b>10.6</b>	<b>17.6</b>	<b>13.4</b>	<b>--</b>	<b>--</b>	<b>12.0</b>	<b>Oct-12</b>
CA Energy Upstream, Royalties, and PE (1 Quarter Lagged)			2.2	2.2	11.0	6.6	-5.0	0.3	9.8	-3.2	Oct-12
<b>Cash</b>	<b>36,010,625</b>	<b>0.5</b>	<b>0.6</b>	<b>0.6</b>	<b>2.0</b>	<b>1.2</b>	<b>0.8</b>	<b>0.5</b>	<b>2.1</b>	<b>3.8</b>	<b>Jul-89</b>
91 Day T-Bills			0.5	0.5	1.9	1.0	0.6	0.4	1.8	2.8	Jul-89

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.