

## New Brunswick Teachers' Pension Plan Composite

Ten years ended December 31, 2019

| Year Ended<br>December 31 | Full<br>Gross<br>Return <sup>1</sup><br>% | Net<br>Return<br>% | Benchmark<br>Return<br>% | Composite<br>3-Yr SD <sup>2</sup><br>% | Benchmark<br>3-Yr SD <sup>2</sup><br>% | Composite<br>AUM <sup>3</sup><br>(in millions of<br>\$CAD) | Firm AUM <sup>3</sup><br>(in millions of<br>\$CAD) |
|---------------------------|---|--------------------|--------------------------|--|--|--|--|
| 2019                      | 12.02                                     | 11.89              | 11.54                    | 3.76                                   | 3.98                                   | 6,266.3  | 18,536.7   |
| 2018                      | 2.05                                      | 1.92               | 0.94                     | 4.05                                   | 4.15                                   | 5,744.6  | 16,901.6   |
| 2017                      | 8.36                                      | 8.23               | 7.27                     | 5.48                                   | 5.75                                   | 5,780.2  | 16,645.4   |
| 2016                      | 6.28                                      | 6.14               | 5.06                     | 5.20                                   | 5.50                                   | 5,484.1  | 15,706.5   |
| 2015                      | 8.40                                      | 8.23               | 7.45                     | 5.26                                   | 5.63                                   | 5,320.1  | 13,164.0   |
| 2014                      | 12.54                                     | 12.37              | 11.55                    | 3.72                                   | 3.92                                   | 5,056.7  | 12,219.7   |
| 2013                      | 12.57                                     | 12.41              | 12.09                    | 4.12                                   | 4.37                                   | 4,654.4  | 10,652.2   |
| 2012                      | 8.54                                      | 8.40               | 7.82                     | 4.35                                   | 4.56                                   | 4,285.3  | 9,707.6  |
| 2011                      | 3.66                                      | 3.50               | 2.88                     | 6.71                                   | 7.13                                   | 4,022.8  | 9,081.3  |
| 2010                      | 9.31                                      | 9.16               | 9.13                     | 10.29                                  | 10.58                                  | 3,951.6  | 8,900.9  |

<sup>1</sup>Supplemental information

<sup>2</sup>SD means the standard deviation

<sup>3</sup>AUM means assets under management

### Composite Description

The New Brunswick Teachers' Pension Plan (NBTPP) includes all portfolios managed by Vestcor Inc. (Vestcor) on behalf of the NBTPP, based on that pension plan's objectives and risk management goals. The NBTPP composite includes public equity, fixed income, inflation linked, absolute return, real estate, infrastructure and private equity asset classes.

### Composite Creation Date

The NBTPP composite was created July 1, 2014, following the conversion of the Teachers' Pension Act (TPA) to the New Brunswick Teachers' Pension Plan (NBTPP) under the Teachers' Pension Plan Act. Prior to April 1, 2014, the pension fund for the TPA was included in the Pension Funds composite.

The NBTPP composite was created for reporting to the NBTPP Board of Trustees.

Vestcor has been the investment manager for this pension plan since March 31, 1996. The historical results for the NBTPP composite are presented on a calendar basis.

## **New Brunswick Teachers' Pension Plan Composite**

Ten years ended December 31, 2019

### **Firm Description**

Vestcor was established pursuant to the *New Brunswick Investment Management Corporation Act* proclaimed on March 11, 1996 and was continued on October 1, 2016 and amalgamated on January 1, 2018 pursuant to the *Vestcor Act*. Vestcor provides investment management and advisory services for pension, trust, and endowment entities and funds.

The composite funds are invested in unit trust funds, separate accounts, and limited partnerships, established by Vestcor to facilitate the collective investment management and administration of these assets. The funds managed by Vestcor are held in accordance with each composite's investment policy.

A complete list and description of firm composites are available upon request.

### **Compliance Statement**

Vestcor claims compliance with the Global Investment Performance Standards (GIPS®) and has prepared and presented this report in compliance with the GIPS® standards. Vestcor has been independently verified for the periods December 1, 1996 through December 31, 2019. The verification reports are available upon request.

Verification assesses whether the firm has complied with all the composite construction requirements of the GIPS® standards on a firm-wide basis and the firm's policies and procedures are designed to calculate and present performance in compliance with the GIPS® standards. Verification does not ensure the accuracy of any specific composite presentation.

### **Calculation Methodology**

Composite returns were calculated in Canadian dollars using the aggregate return method on a daily basis. Daily returns were linked geometrically to calculate periodic returns. Returns include dividends net of withholding taxes, interest, as well as realized and unrealized gains and losses as of the last business day of the reporting period. Performance returns expressed on a full gross basis are after the deduction of all trading expenses, but before the deduction of investment management costs and custodial fees.

Under the terms of its investment management agreements, Vestcor charges for its investment management services on a cost recovery basis, allocated *pro rata* to its clients according to their share of Vestcor's total assets under management. Performance returns expressed on a net basis are after the deduction of all expenses charged for the composite assets under management, including trading expenses, custodial fees, and investment management costs.

## **New Brunswick Teachers' Pension Plan Composite**

Ten years ended December 31, 2019

The composite performance presented in this schedule may not be indicative of future performance. Readers should also be aware that other performance calculation methods may produce different results, and that the results for specific accounts and for different periods may vary from composite returns presented. Comparisons of investment results should consider qualitative circumstances and should be made only to portfolios with generally similar objectives.

In the calculation and presentation of performance returns, Vestcor is not aware of any instances in which this presentation does not conform with the laws and regulations of any province or territory of Canada in which Vestcor operates.

Additional information regarding Vestcor's policies and procedures for valuing portfolios, calculating and reporting composite results, and preparing compliant presentations, is available upon request.

### **Number of Portfolios and Internal Dispersion**

The internal dispersion measure and number of portfolios are not presented because the NBTTP is the only portfolio in the composite.

### **Three Year Annualized Ex-Post Standard Deviation**

The three year annualized ex-post standard deviation measures the variability of the composite and the benchmark daily returns, aggregated to a monthly basis, over the preceding 36 month period.

### **Sub-advisors**

Vestcor enters into sub-advisory agreements whereby certain assets are managed by sub-advisors. Rates of return earned on assets managed by the sub-advisors are included in Vestcor's composite presentations because Vestcor maintains full discretion over the use and choice of sub-advisors.

### **Derivative Instruments and Short Positions**

Futures contracts, forward foreign exchange contracts, exchange traded and over-the-counter options and swaps, and short positions are used in Vestcor's investment management activities.

These derivative instruments are used for various purposes, including:

- to simulate exposure to a particular market index, but with lower transaction costs;
- to enhance performance returns;
- to modify the cash flow characteristics of an investment; or
- to hedge against potential losses due to changes in foreign exchange rates or stock prices.

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In using derivative instruments, as described above, Vestcor has established investment criteria, policies and procedures over the extent and use of derivative instruments to manage performance returns and mitigate market risks such as foreign currency, interest rate and pricing risk.

### Benchmark Description

The NBTPP's composite blended benchmark is calculated daily using a blend of the asset class benchmarks, based on the beginning daily weights for the respective asset classes. Benchmark returns were calculated using the following indices and weights on December 31, 2019:

| Index   | Weight (%) |
|---|------------|
| S&P/TSX Composite Total Return Index  | 6.54       |
| S&P/TSX Small Cap Total Return Index  | 1.03       |
| MSCI Canada Minimum Volatility Total Return Index, Gross                      | 5.02       |
| S&P 500 Total Return Index in \$C   | 7.31       |
| MSCI USA Minimum Volatility (USD) Total Return Index in \$C, Net              | 6.31       |
| MSCI EAFE Total Return Index in \$C, Net                                      | 7.86       |
| MSCI EAFE Minimum Volatility (USD) Total Return Index in \$C, Net             | 6.33       |
| MSCI Emerging Markets Minimum Volatility (USD) Total Return Index in \$C, Net | 4.00       |
| FTSE NAREIT All Equity REITS Total Return Index in \$C                        | 0.62       |
| S&P/TSX Capped REIT Total Return Index  | 0.25       |
| 4% Real Return*   | 9.42       |
| FTSE Canada All Government Bond Index   | 15.65      |
| FTSE Canada All Corporate Bond Index  | 15.67      |
| FTSE Canada Real Return Bond Index  | 4.97       |
| FTSE Canada 91-Day T-Bill Index   | 8.35       |
| One-day Canadian Call Loan Rate   | 0.63       |
| Not applicable  | 0.04       |

*\*Inflation is defined as the percentage change in the twelve-month average CPI-Canada All Items Index*

Effective October 1, 2014, minimum volatility benchmarks replaced the market cap indices for Canadian, US, and EAFE Low Volatility public equity funds.

In July of 2018, FTSE Russell announced the rebranding of the FTSE TMX Canada Indices to the FTSE Canada Indices.