EATON VANCE PENNSYLVANIA MUNICIPAL BOND FUND Form N-CSR November 25, 2014

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED

MANAGEMENT INVESTMENT COMPANIES

Investment Company Act File Number: 811-21227

Eaton Vance Pennsylvania Municipal Bond Fund

(Exact Name of Registrant as Specified in Charter)

Two International Place, Boston, Massachusetts 02110

(Address of Principal Executive Offices)

Maureen A. Gemma

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(Name and Address of Agent for Services)

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(Registrant s Telephone Number)

September 30

Date of Fiscal Year End

September 30, 2014

Date of Reporting Period

Item 1. Reports to Stockholders

Municipal Bond Funds

Annual Report

September 30, 2014

Municipal II (EIV) California II (EIA) Massachusetts (MAB) Michigan (MIW)

New Jersey (EMJ) New York II (NYH) Ohio (EIO) Pennsylvania (EIP)

Commodity Futures Trading Commission Registration. Effective December 31, 2012, the Commodity Futures Trading Commission (CFTC) adopted certain regulatory changes that subject registered investment companies and advisers to regulation by the CFTC if a fund invests more than a prescribed level of its assets in certain CFTC-regulated instruments (including futures, certain options and swap agreements) or markets itself as providing investment exposure to such instruments. Each Fund has claimed an exclusion from the definition of the term—commodity pool operator—under the Commodity Exchange Act. Accordingly, neither the Funds nor the adviser with respect to the operation of the Funds is subject to CFTC regulation. Because of its management of other strategies, each Fund—s adviser is registered with the CFTC as a commodity pool operator and a commodity trading advisor.

Fund shares are not insured by the FDIC and are not deposits or other obligations of, or guaranteed by, any depository institution. Shares are subject to investment risks, including possible loss of principal invested.

Annual Report September 30, 2014

Eaton Vance

Municipal Bond Funds

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Municipal Bond Funds

September 30, 2014

Management s Discussion of Fund Performance

Economic and Market Conditions

As the fiscal year began on October 1, 2013, the municipal market was at the tail end of a significant selloff that started in May 2013, after then-U.S. Federal Reserve Board (the Fed) Chairman Ben Bernanke surprised the markets by indicating that the Fed s \$85 billion in monthly asset purchases could be tapered sooner than most investors had expected. Investors rushed to sell fixed-income assets in anticipation of rising rates, causing nearly every fixed-income asset class to decline in value.

Even after the Fed tried to temper its comments and calm the markets, heavy selling in municipals continued through the summer of 2013. Although selling of municipals abated somewhat in September, the municipal market continued to experience outflows from the beginning of the period on October 1 through December 2013.

But as 2014 began, municipals turned a corner. From January 1 through September 30, 2014, municipals rallied back from 2013 lows. Contrary to what many investors had expected, Treasury rates declined and municipal rates followed. A principal driver was a global flight to quality, as investors sought the relative safety of Treasurys in the face of increased geopolitical and economic risks overseas. In addition, strong demand for municipals, coupled with tight supply, created a favorable supply-demand imbalance that helped drive prices up and yields down. As investors searched for yield in a low-interest-rate environment, longer dated and lower credit quality bonds were the best performers. For the one-year period as a whole, long-term municipal rates declined while short-term rates were essentially flat.

Fund Performance

For the fiscal year ended September 30, 2014, all of the Funds shares at net asset value (NAV) outperformed the 12.88% return of the Funds benchmark, the Barclays Long (22+) Year Municipal Bond Index² (the Index).

The Funds overall strategy is to invest primarily in higher-quality bonds (rated Åor higher) with maturities of 10 years or more, in order to capture their typically higher yields and a greater income stream compared with shorter-maturity issues.

In managing the Funds, management employs leverage through Residual Interest Bond (RIB) financing and Auction

Preferred Shares (APS)⁶ to seek to enhance the Funds tax-exempt income. The use of leverage has the effect of achieving additional exposure to the municipal market, and thus magnifying a Fund s exposure to its underlying investments in both up and down market environments. During this period of falling rates and strong performance by municipal bonds, the use of leverage was the largest single contributor to performance versus the Index which does not employ leverage for all eight Funds.

By using Treasury futures and/or interest-rate swaps, management hedges to various degrees against the greater potential risk of volatility caused by the use of leverage and investing in bonds at the long end of the yield curve. As a risk management tactic within the Funds overall strategy, interest rate hedging is intended to moderate performance on both the upside and the downside of the market. During this period of strong performance by municipal bonds, the Funds Treasury futures hedge mitigated some of the upside and thus detracted modestly from performance relative to the unhedged Index for all Funds except the Michigan and Ohio Funds, which made minimal use of hedging during the period.

Fund-specific Results

Eaton Vance Municipal Bond Fund II shares at NAV returned 22.61%, outperforming the 12.88% return of the Index. Significant contributors to relative results versus the Index included leverage, as noted above, and an overweight and security selection in zero coupon bonds, which were the best-performing coupon structure during the period. In addition, relative performance was aided by a positive credit development regarding the Fund s position in Ambac-insured bonds issued by the Las Vegas Monorail Company, an issuer that filed for bankruptcy protection in 2010. The main detractors from performance relative to the Index were the Fund s hedging strategy, an overweight in pre-refunded, or escrowed, bonds, security selection and an overweight in BBB-rated bonds, and security selection and an overweight in bonds with 30 or more years remaining to maturity.

Eaton Vance California Municipal Bond Fund II shares at NAV returned 20.12%, outperforming the 12.88% return of the Index. Leverage contributed to performance versus the Index, as did an overweight in local general obligation bonds and an overweight in zero coupon bonds. Detractors from results versus the Index included the Fund shedging

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Past performance is no guarantee of future results. Returns are historical and are calculated by determining the percentage change in net asset value (NAV) or market price (as applicable) with all distributions reinvested and includes management fees and other expenses. Fund performance at market price will differ from its results at NAV due to factors such as changing perceptions about the Fund, market conditions, fluctuations in supply and demand for Fund shares, or changes in Fund distributions. Investment return and principal value will fluctuate so that shares, when sold, may be worth more or less than their original cost. Performance less than one year is cumulative. Performance is for the stated time period only; due to market volatility, current Fund performance may be lower or higher than the quoted return. For performance as of the most recent month-end, please refer to eatonvance.com.

Municipal Bond Funds

September 30, 2014

Management s Discussion of Fund Performance continued

strategy, security selection and an underweight in the health care and transportation sectors, and security selection and an underweight in BBB-rated and A-rated bonds.

Eaton Vance Massachusetts Municipal Bond Fund shares at NAV returned 18.82%, outperforming the 12.88% return of the Index. Key contributors to performance relative to the Index included leverage, an overweight and security selection in Puerto Rico bonds, and an overweight and security selection in the education sector. In contrast, the Fund s hedging strategy, an underweight and security selection in BBB-rated bonds, an underweight and security selection in the transportation sector, and an underweight in bonds with 30 or more years remaining to maturity all detracted from performance versus the Index.

Eaton Vance Michigan Municipal Bond Fund shares at NAV returned 19.57%, outperforming the 12.88% return of the Index. Leverage, security selection in A-rated bonds, and security selection in Puerto Rico bonds all contributed to results versus the Index, along with security selection in water and sewer bonds. In particular, performance benefited from positions in Detroit water and sewer issues, which were treated favorably in the city s bankruptcy proceedings; the City of Detroit had filed for bankruptcy in July 2013. In contrast, detractors from Fund performance versus the Index included an overweight in pre-refunded bonds, security selection in zero coupon bonds, and an underweight in the transportation sector.

Eaton Vance New Jersey Municipal Bond Fund shares at NAV returned 16.77%, outperforming the 12.88% return of the Index. Contributors to performance versus the Index included leverage, security selection in Puerto Rico bonds, and an overweight in zero

coupon bonds. Detractors from results relative to the Index included the Fund shedging strategy, security selection in BBB-rated bonds, an underweight and security selection in bonds with 30 or more years remaining to maturity, and an underweight and security selection in the transportation sector.

Eaton Vance New York Municipal Bond Fund II shares at NAV returned 15.23%, outperforming the 12.88% return of the Index. Key contributors to results versus the Index included leverage, an overweight and security selection in AAA-rated bonds, and security selection in the special tax sector.

In contrast, performance versus the Index was hurt by the Fund s hedging strategy, security selection in the health care sector, and security selection in BBB-rated bonds.

Eaton Vance Ohio Municipal Bond Fund shares at NAV returned 19.45%, outperforming the 12.88% return of the Index. Significant contributors to results versus the Index included leverage, security selection in Puerto Rico bonds, and an overweight in zero coupon bonds. An overweight in pre-refunded bonds and an underweight in the transportation sector detracted from performance relative to the Index.

Eaton Vance Pennsylvania Municipal Bond Fund shares at NAV returned 18.84%, outperforming the 12.88% return of the Index. Leverage was a key contributor to performance versus the Index, as were security selection in Puerto Rico bonds and an overweight in zero coupon bonds. In contrast, the Fund s hedging strategy, an underweight in BBB-rated bonds, and an underweight in the transportation sector all detracted from performance relative to the Index during the period.

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Municipal Bond Fund II

September 30, 2014

Performance^{2,3}

Portfolio Manager Cynthia J. Clemson

% Average Annual Total Returns	Inception Date	One Year	Five Years	Ten	Years
Fund at NAV	11/29/2002	22.61%	8.30%		5.85%
Fund at Market Price		19.62	5.79		5.15
Barclays Long (22+) Year Municipal Bond Index		12.88%	5.97%		5.42%
% Premium/Discount to NAV ⁴					
					7.71%
Distributions ⁵					
Total Distributions per share for the period				\$	0.757
Distribution Rate at NAV					5.56%
Taxable-Equivalent Distribution Rate at NAV					9.82%
Distribution Rate at Market Price					6.03%
Taxable-Equivalent Distribution Rate at Market Price					10.65%
% Total Leverage ⁶					
Auction Preferred Shares (APS)					20.51%
Residual Interest Bond (RIB) Financing					16.91
Fund Profile					

Credit Quality (% of total investments)^{7,8}

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California Municipal Bond Fund II

September 30, 2014

Performance^{2,3}

Portfolio Manager Craig R. Brandon, CFA

% Average Annual Total Returns	Inception Date	One Year	Five Years	Ten Years
Fund at NAV	11/29/2002	20.12%	7.48%	5.61%
Fund at Market Price		14.22	6.19	4.56
Barclays Long (22+) Year Municipal Bond Index		12.88%	5.97%	5.42%
% Premium/Discount to NAV ⁴				
				9.04%

Distributions ⁵	
Total Distributions per share for the period	\$ 0.731
Distribution Rate at NAV	5.50%
Taxable-Equivalent Distribution Rate at NAV	11.21%
Distribution Rate at Market Price	6.05%
Taxable-Equivalent Distribution Rate at Market Price	12.33%

% Total Leverage ^o	
APS	29.48%
RIB Financing	11.34
Fund Profile	

Credit Quality (% of total investments)^{7,8}

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Massachusetts Municipal Bond Fund

September 30, 2014

Performance^{2,3}

Portfolio Manager Craig R. Brandon, CFA

% Average Annual Total Returns Fund at NAV Fund at Market Price Barclays Long (22+) Year Municipal Bond Index	Inception Date 11/29/2002	One Year 18.82% 23.19 12.88%	Five Years 6.69% 4.96 5.97%	Ten Years 5.91% 4.98 5.42%
% Premium/Discount to NAV ⁴				4.14%
Distributions ⁵ Total Distributions per share for the period Distribution Rate at NAV Taxable-Equivalent Distribution Rate at NAV Distribution Rate at Market Price Taxable-Equivalent Distribution Rate at Market Price				\$ 0.760 5.00% 9.32% 5.22% 9.73%
% Total Leverage ⁶ APS RIB Financing Fund Profile				31.01% 7.61

Credit Quality (% of total investments)^{7,8}

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that shares, when sold, may be worth more or less than their original cost. Performance less than one year is cumulative. Performance is for the stated time period only; due to market volatility, current Fund performance may be lower or higher than the quoted return. For performance as of the most recent month-end, please refer to eatonvance.com.

Michigan Municipal Bond Fund

September 30, 2014

Performance^{2,3}

Portfolio Manager Thomas M. Metzold, CFA

% Average Annual Total Returns Fund at NAV Fund at Market Price Barclays Long (22+) Year Municipal Bond Index	Inception Date 11/29/2002	One Year 19.57% 16.89 12.88%	Five Years 6.47% 4.89 5.97%	Ten Years 6.02% 4.18 5.42%
% Premium/Discount to NAV ⁴				12.42%
Distributions ⁵ Total Distributions per share for the period Distribution Rate at NAV Taxable-Equivalent Distribution Rate at NAV				\$ 0.734 5.31%