

*In the opinion of Co-Bond Counsel, interest on the 2017 Bonds will be excluded from gross income for federal income tax purposes under existing statutes, regulations, rulings and court decisions, subject to the conditions described in "TAX MATTERS" herein. In addition, interest on the 2017 Bonds will not be treated as an item of tax preference under Section 57 of the Internal Revenue Code of 1986, as amended (the "Code"), for purposes of the individual and corporate alternative minimum taxes; however, under the Code, such interest may be subject to certain other taxes affecting corporate holders of the 2017 Bonds. Under the existing laws of the Commonwealth of Pennsylvania, interest on the 2017 Bonds will be free from Pennsylvania personal income taxation and Pennsylvania corporate net income taxation but such exemption does not extend to gift, estate, succession or inheritance taxes or any other taxes not levied or assessed directly on the 2017 Bonds or the interest thereon. For a more complete discussion, see "TAX MATTERS" herein.*

\$83,220,000

**THE PHILADELPHIA MUNICIPAL AUTHORITY  
CITY OF PHILADELPHIA, PENNSYLVANIA  
City Agreement Revenue Refunding Bonds,  
Series 2017  
(Juvenile Justice Services Center)**

Dated: Date of Delivery

Due: April 1, as shown on inside cover page

**Defined Terms.** All capitalized terms that are not otherwise defined on this cover page have the meanings provided to such terms in this Official Statement.

**The 2017 Bonds.** The Philadelphia Municipal Authority, Philadelphia, Pennsylvania, a body corporate and politic organized by City Council under the Act (the "Authority"), is issuing the above-referenced bonds (the "2017 Bonds"), pursuant to (i) the Act, (ii) the Resolution, (iii) the Indenture, and (iv) the Ordinance.

**Purpose.** The 2017 Bonds are being issued to (i) refund certain outstanding maturities of the Authority's Lease Revenue Bonds, Series 2009, as more particularly described herein, and (ii) pay the costs of issuing the 2017 Bonds. See "PLAN OF FINANCE AND ESTIMATED SOURCES AND USES OF FUNDS" herein.

**Security.** The following is qualified in all respects by the information in this Official Statement under the caption "SECURITY AND SOURCES OF PAYMENT FOR THE 2017 BONDS" and the documents referenced under such caption. The 2017 Bonds are payable by the Authority solely from certain payments to be made by:



THE CITY OF PHILADELPHIA

(the "City"), as further described below and herein.

The 2017 Bonds are payable by the Authority solely from Rent to be paid by the City under the Prime Lease by and between the Authority and the City, and certain funds held under the Indenture.

The Rent under the Prime Lease is sized to be sufficient to pay, among other things, the principal of and interest on the 2017 Bonds when due. The Rent is payable solely from the current revenues of the City, is subject to annual appropriation by the City, and the City Charter provides that it is the duty of City Council to appropriate to pay the Rent in each Fiscal Year. The City has covenanted in the Prime Lease and the Ordinance to include in its annual operating budget and appropriate in each Fiscal Year amounts sufficient to pay all Rent payments in such Fiscal Year when due. There can be no assurance that funds sufficient to pay such rental payments will be available in any Fiscal Year of the City. The obligation of the City to pay the Rent pursuant to the Prime Lease from current revenues of the City is absolute and unconditional.

**Limited Obligations.** The 2017 Bonds are limited obligations of the Authority payable solely from the Trust Estate and are not obligations of the City, the Commonwealth of Pennsylvania (the "Commonwealth") or any other political subdivision thereof. The 2017 Bonds are not secured by the General Fund or any other fund of the City, and neither the general credit of the Authority nor the credit or taxing power of the City, the Commonwealth or any other political subdivision thereof is pledged to the payment of the principal of the 2017 Bonds, or the interest thereon or any premium or other costs incidental thereto. The Authority has no taxing power.

**Redemption.** The 2017 Bonds are subject to redemption prior to maturity, as described herein. See "THE 2017 BONDS – Redemption Provisions" herein.

**Additional Bonds.** For certain purposes and if certain conditions are met, the Authority may issue Additional Bonds secured on a parity basis with the 2017 Bonds, as described herein. See "THE 2017 BONDS – Additional Bonds" herein.

**Interest Payment Dates.** Interest on the 2017 Bonds is payable semiannually on each April 1 and October 1, commencing October 1, 2017.

**Tax Status.** For information on the tax status of the 2017 Bonds, see the italicized language at the top of this cover page and "TAX MATTERS" herein.

**Delivery Date.** It is expected that the 2017 Bonds will be available for delivery to DTC on or about April 25, 2017.

**This cover page contains certain information for quick reference only. It is not a summary of the 2017 Bonds or this Official Statement. Investors must read the entire Official Statement, including the Appendices, which are an integral part hereof, to obtain information essential to the making of an informed investment decision regarding the 2017 Bonds.**

*The 2017 Bonds are offered when, as and if issued by the Authority and accepted by the Underwriters and subject to receipt of the approval of legality of Cozen O'Connor and Ahmad Zaffarese LLC, Co-Bond Counsel, both of Philadelphia, Pennsylvania. Certain legal matters will be passed upon for the Authority by Austin McGreal, Esq., Authority Counsel, Philadelphia, Pennsylvania, and for the Underwriters by their counsel, Eckert Seamans Cherin & Mellott, LLC, Philadelphia, Pennsylvania. Certain legal matters will be passed upon for the City by the City of Philadelphia Law Department. Hawkins Delafield & Wood LLP and Law Office of Ann C. Lebowitz, Philadelphia, Pennsylvania, as Co-Disclosure Counsel to the City, will each deliver an opinion to the City and the Underwriters regarding certain matters.*

Citigroup

Ramirez &amp; Co., Inc.

Drexel Hamilton

PNC Capital Markets LLC

The Williams Capital Group, L.P.

Dated: April 12, 2017

**MATURITIES, PRINCIPAL AMOUNTS, INTEREST RATES, PRICES, YIELDS AND CUSIPS†****\$83,220,000****THE PHILADELPHIA MUNICIPAL AUTHORITY  
CITY OF PHILADELPHIA, PENNSYLVANIA****City Agreement Revenue Refunding Bonds,  
Series 2017  
(Juvenile Justice Services Center)**

<b><u>Maturity (April 1)</u></b>	<b><u>Principal Amount</u></b>	<b><u>Interest Rate</u></b>	<b><u>Price</u></b>	<b><u>Yield</u></b>	<b><u>CUSIP†</u></b>
2018	\$ 700,000	3.000%	101.947	0.900%	717904KW5
2019	445,000	4.000	105.039	1.350	717904KX3
2020	2,690,000	5.000	109.703	1.600	717904KY1
2021	2,820,000	5.000	112.057	1.810	717904KZ8
2022	2,965,000	5.000	113.773	2.050	717904LA2
2023	3,110,000	5.000	115.133	2.260	717904LB0
2024	3,265,000	5.000	116.029	2.470	717904LC8
2025	3,430,000	5.000	116.557	2.670	717904LD6
2026	3,600,000	5.000	117.021	2.830	717904LE4
2027	3,785,000	5.000	117.537	2.950	717904LF1
2028	3,970,000	5.000	116.228*	3.090*	717904LG9
2030	4,170,000	5.000	114.205*	3.310*	717904LH7
2031	4,380,000	5.000	113.389*	3.400*	717904LJ3
2032	4,595,000	5.000	112.850*	3.460*	717904LK0
2033	4,830,000	5.000	112.313*	3.520*	717904LL8
2034	5,065,000	5.000	111.602*	3.600*	717904LM6
2035	5,320,000	5.000	111.161*	3.650*	717904LN4
2036	5,585,000	5.000	110.809*	3.690*	717904LP9
2037	5,865,000	5.000	110.721*	3.700*	717904LQ7
2038	6,160,000	5.000	110.546*	3.720*	717904LR5
2039	6,470,000	5.000	110.459*	3.730*	717904LS3

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\* Price and yield calculated to the first optional call date of April 1, 2027 at par.

† CUSIP is a registered trademark of the American Bankers Association (the “ABA”). CUSIP data is provided by CUSIP Global Services, which is managed on behalf of the ABA by S&P Global Market Intelligence, a part of S&P Global Inc. The CUSIP numbers listed above are being provided solely for the convenience of the holders of 2017 Bonds only at the time of issuance of the 2017 Bonds and the City, the Authority, the Trustee, and the Underwriters do not make any representation with respect to such CUSIP numbers or undertake any responsibility for their accuracy now or at any time in the future. The CUSIP numbers are subject to being changed after the issuance of the 2017 Bonds as a result of various subsequent actions including, but not limited to, a refunding in whole or in part of the 2017 Bonds or as a result of the procurement of secondary market portfolio insurance or other similar enhancement by investors that may be applicable to all or a portion of the 2017 Bonds.

**THE PHILADELPHIA MUNICIPAL AUTHORITY**  
**1515 Arch Street, 9th Floor**  
**Philadelphia, Pennsylvania 19102**

Robert A. Zuritsky  
Chairman

Rasheia R. Johnson  
Vice Chair

Leonard V. Cid  
Treasurer

Michelle Lai  
Member

Ahmennah Young  
Member

Lorna B. Gallman,  
Executive Director/Secretary

**THE CITY OF PHILADELPHIA, PENNSYLVANIA**

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**MAYOR**  
**HONORABLE JAMES F. KENNEY**

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**MAYOR'S CHIEF OF STAFF**  
**Jane Slusser**

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**MAYOR'S CABINET**

Michael DiBerardinis.....	Managing Director
Rob Dubow .....	Director of Finance
Sozi Pedro Tulante, Esq. ....	City Solicitor
Nina Ahmad.....	Deputy Mayor for Public Engagement
Nolan Atkinson .....	Chief Diversity & Inclusion Officer
James Engler .....	Deputy Mayor for Policy & Legislation
Harold Epps. ....	Commerce Director
Anne Fadullon.....	Director of Planning & Development
Otis Hackney.....	Chief Education Officer
Sheila Hess .....	City Representative
Ellen Kaplan.....	Chief Integrity Officer
Amy Kurland .....	Inspector General
Richard Lazer.....	Deputy Mayor for Labor Relations
Deborah Mahler .....	Deputy Mayor for Intergovernmental Affairs
Christine Derenick-Lopez .....	Chief Administrative Officer

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**CITY TREASURER**  
Rasheia Johnson

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**CITY CONTROLLER**  
Alan L. Butkovitz

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**No Offering May Be Made Except by this Official Statement.** No dealer, broker, salesperson or other person has been authorized by the Authority, the City or the Underwriters to give any information or to make representations, other than as contained in this Official Statement, and if given or made, such other information or representations must not be relied upon as having been authorized by the Authority, the City or the Underwriters.

**No Unlawful Offers or Solicitations.** This Official Statement does not constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of the 2017 Bonds by any person, in any jurisdiction in which it is unlawful for such person to make such offer, solicitation or sale.

**Use of this Official Statement.** This Official Statement is submitted in connection with the sale of the 2017 Bonds described in this Official Statement and may not be reproduced or used, in whole or in part, for any other purpose. This Official Statement is not to be construed as a contract or agreement among the Authority, the City, the Underwriters and the purchasers or owners of any offered 2017 Bonds. This Official Statement is being provided to prospective purchasers either in bound printed form ("Original Bound Format") or in electronic format on the following website: [www.mcelweequinn.com](http://www.mcelweequinn.com). This Official Statement may be relied upon only if it is in its Original Bound Format or if it is printed in full directly from such website.

**Preparation of this Official Statement.** The information set forth herein has been furnished by the Authority and the City and includes information obtained from other sources, all of which are believed to be reliable. The information and expressions of opinion herein are subject to change without notice and neither the delivery of this Official Statement nor any sale made hereunder shall, under any circumstances, create any implication that there has been no change in the affairs of the Authority or the City since the date hereof. Such information and expressions of opinion are made for the purpose of providing information to prospective investors and are not to be used for any other purpose or relied on by any other party. The Underwriters have reviewed the information in this Official Statement in accordance with, and as part of, their responsibilities to investors under the federal securities laws as applied to the facts and circumstances of this transaction, but the Underwriters do not guarantee the accuracy or completeness of such information.

**Order and Placement of Materials.** The order and placement of materials in this Official Statement, including the Appendices, are not to be deemed a determination of relevance, materiality or importance, and this Official Statement, including the cover page, the inside cover page and the Appendices, must be considered in its entirety. The captions and headings in this Official Statement are for convenience only and in no way define, limit or describe the scope or intent, or affect the meaning or construction, of any provisions or sections of this Official Statement. The offering of the 2017 Bonds is made only by means of this entire Official Statement.

**Estimates and Forecasts.** The statements contained in this Official Statement and the Appendices hereto that are not purely historical are forward-looking statements. Such forward-looking statements can be identified, in some cases, by terminology such as "may," "will," "should," "expects," "intends," "plans," "anticipates," "believes," "estimates," "predicts," "potential," "illustrate," "example," and "continue," or the singular, plural, negative or other derivations of these or other comparable terms. Readers should not place undue reliance on forward-looking statements. All forward-looking statements included in this Official Statement are based on information available on the date of this Official Statement, and neither the Authority nor the City assumes any obligation to update any such forward-looking statements. The forward-looking statements included herein are necessarily based on various assumptions and estimates and are inherently subject to various risks and uncertainties, including, but not limited to, risks and uncertainties relating to the possible invalidity of the underlying assumptions and estimates and possible changes or developments in various important factors. Accordingly, actual results may vary from the projections, forecasts and estimates contained in this Official Statement and such variations may be material, which could affect the ability to fulfill some or all of the obligations under the 2017 Bonds.

**Public Offering Prices.** In connection with the offering of the 2017 Bonds, the Underwriters may over-allot or effect transactions which stabilize or maintain the market price of the 2017 Bonds at levels above those which might otherwise prevail in the open market. Such stabilization, if commenced, may be discontinued at any time.

**No Recommendation or Registration.** The 2017 Bonds have not been recommended by any federal or state securities commission or regulatory authority. Furthermore, the foregoing authorities have not confirmed the accuracy or determined the adequacy of this document. Any representation to the contrary is a criminal offense. The 2017 Bonds have not been registered with the Securities and Exchange Commission (the "SEC") under the Securities Act of 1933, as amended, in reliance upon the exemption contained in Section 3(a)(2) of such act; and the Indenture has not been qualified under the Trust Indenture Act of 1939, as amended, in reliance upon certain exemptions contained in such act.

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### **Summary of the Offering**

*This summary is subject in all respects to more complete information contained in this Official Statement and should not be considered a complete statement of the facts material to making an investment decision. The offering of the 2017 Bonds to potential investors is made only by means of the entire Official Statement, including the cover page, the inside cover page, and the Appendices. Capitalized terms used in this summary and not otherwise defined in the front portion of this Official Statement have the meanings given to such terms in APPENDIX D.*

**Issuer:** The Philadelphia Municipal Authority, Philadelphia, Pennsylvania, a body corporate and politic organized by City Council under the Act (the “Authority”).

**Bonds Offered:** \$83,220,000 aggregate principal amount of City Agreement Revenue Refunding Bonds, Series 2017 (Juvenile Justice Services Center) (the “2017 Bonds”).

**Interest Payment Dates:** Interest on the 2017 Bonds is payable semiannually on each April 1 and October 1, commencing October 1, 2017.

**Security and Sources of Payment:** The following is qualified in all respects by the information in this Official Statement under the caption “SECURITY AND SOURCES OF PAYMENT FOR THE 2017 BONDS” and the documents referenced under such caption.

The 2017 Bonds are payable by the Authority solely from (i) certain rental payments (the “Rent”) to be paid by the City under the Prime Lease, dated as of June 1, 2009 (the “2009 Prime Lease”), as amended by the First Amendment to Prime Lease, dated as of May 22, 2014 (the “2014 Prime Lease Amendment”), as further amended by the Second Amendment to Prime Lease, dated as of April 1, 2017 (the “2017 Prime Lease Amendment,” and together with the 2009 Prime Lease and the 2014 Prime Lease Amendment, the “Prime Lease”), each by and between the Authority and the City, and (ii) certain funds held under the Indenture.

The Rent under the Prime Lease is sized to be sufficient to pay, among other things, the principal of and interest on the 2017 Bonds when due. The Rent is payable solely from the current revenues of the City, is subject to annual appropriation by the City, and the City Charter provides that it is the duty of City Council to appropriate to pay the Rent in each Fiscal Year. The City has covenanted in the Prime Lease and the Ordinance to include in its annual operating budget and appropriate in each Fiscal Year amounts sufficient to pay all Rent payments in such Fiscal Year when due. There can be no assurance that funds sufficient to pay such rental payments will be available in any Fiscal Year of the City. The obligation of the City to pay the Rent pursuant to the Prime Lease from current revenues of the City is absolute and unconditional.

**The 2017 Bonds are limited obligations of the Authority payable solely from the Trust Estate and are not obligations of the City, the Commonwealth of Pennsylvania (the “Commonwealth”) or any other political subdivision thereof. The 2017 Bonds are not secured by the General Fund or any other fund of the City, and neither the general credit of the Authority nor the credit or taxing power of the City, the**

**Commonwealth or any other political subdivision thereof is pledged to the payment of the principal of the 2017 Bonds, or the interest thereon or any premium or other costs incidental thereto. The Authority has no taxing power.**

**Additional Bonds:** For certain purposes and if certain conditions are met, the Authority may issue Additional Bonds secured on a parity basis with the 2017 Bonds, as described herein. See “THE 2017 BONDS – Additional Bonds” herein.

**Use of Proceeds:** The 2017 Bonds are being issued for the purpose of providing funds to (i) refund certain outstanding maturities of the Authority’s Lease Revenue Bonds, Series 2009, as more particularly described herein, and (ii) pay the costs relating to the issuance of the 2017 Bonds. See “PLAN OF FINANCE AND ESTIMATED SOURCES AND USES OF FUNDS” herein.

**Redemption:** The 2017 Bonds are subject to redemption prior to maturity, as described herein. See “THE 2017 BONDS – Redemption Provisions” herein.

**Authorized Denominations:** The 2017 Bonds will be issued as registered bonds in denominations of \$5,000 or any integral multiple thereof.

**Form and Depository:** The 2017 Bonds will be delivered solely in registered form under a global book-entry system through the facilities of DTC. See APPENDIX G.

**Tax Status:** For information on the tax status of the 2017 Bonds, see the italicized language at the top of the cover page of this Official Statement and “TAX MATTERS” herein.

**Ratings:** Moody’s “A2”  
S&P “A+”  
Fitch “A-”  
See “RATINGS” herein.



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**OFFICIAL STATEMENT  
Relating To**

**\$83,220,000**

**The Philadelphia Municipal Authority  
City of Philadelphia, Pennsylvania**

**City Agreement Revenue Refunding Bonds,  
Series 2017  
(Juvenile Justice Services Center)**

**INTRODUCTION**

**General**

This Official Statement, including the cover page, the inside cover page, and the attached Appendices, is furnished in connection with the offering by The Philadelphia Municipal Authority, Philadelphia, Pennsylvania (the “Authority”), a body corporate and politic organized by the City Council of the City of Philadelphia (“City Council”) under the Act (as defined herein), of \$83,220,000 aggregate principal amount of its City Agreement Revenue Refunding Bonds, Series 2017 (Juvenile Justice Services Center) (the “2017 Bonds”). Reference should be made to the material under the caption “THE 2017 BONDS” for a description of the 2017 Bonds and to APPENDIX G for a description of the book-entry system applicable thereto.

Certain factors that may affect an investment decision concerning the 2017 Bonds are described throughout this Official Statement. Prospective purchasers considering a purchase of the 2017 Bonds should read this Official Statement, including the cover page, the inside cover page, and the Appendices, which are an integral part hereof, in its entirety. All estimates and assumptions of financial and other information are based on information currently available, are believed to be reasonable and are not to be construed as assurances of actual outcomes. All estimates of future performance or events constituting forward-looking statements may or may not be realized because of a wide variety of economic and other circumstances. Included in such forward-looking statements are numbers and other information from the adopted and proposed budgets of The City of Philadelphia (the “City”), as well as from the City’s five-year financial plans. See APPENDIX A – “DISCUSSION OF FINANCIAL OPERATIONS – Current Financial Information” hereto. Accordingly, no assurance is given that any projected future results will be achieved.

**Authorization**

The 2017 Bonds are being issued pursuant to the provisions of (i) the Pennsylvania Municipality Authorities Act (the Act of June 19, 2001, P.L. 287, as amended) (the “Act”), (ii) a resolution of the Authority adopted November 18, 2016 (the “Resolution”), (iii) the Trust Indenture, dated as of June 1, 2009, as supplemented by the First Supplemental Indenture, dated as of April 1, 2017 (collectively, the “Indenture”), each by and between the Authority and U.S. Bank National Association, as trustee (the “Trustee”), and (iv) an ordinance (Bill No. 160968) of City Council, adopted thereby on December 1, 2016, and signed by the Mayor on December 14, 2016 (the “Ordinance”).

The 2017 Bonds and any other bonds issued pursuant to the Indenture, are referred to herein as “Bonds,” and include any 2009 Bonds (as hereafter defined) that remain outstanding after the issuance of

the 2017 Bonds (the “Non-Refunded 2009 Bonds”). Any terms capitalized herein and not otherwise defined shall have the respective meanings set forth in APPENDIX D hereto.

Pursuant to the Ordinance, the City has, among other things, approved the issuance of the 2017 Bonds, and authorized the payment of the Rent (as defined herein).

### **Purpose**

The proceeds of the 2017 Bonds will be used to: (i) refund certain outstanding maturities of the Authority’s Lease Revenue Bonds, Series 2009 (the “2009 Bonds”), as more particularly described herein; and (ii) pay the costs relating to the issuance of the 2017 Bonds. The 2017 Bonds and any Non-Refunded 2009 Bonds will be equally and ratably secured under the Indenture. See “PLAN OF FINANCE AND ESTIMATED SOURCES AND USES OF FUNDS” herein.

The proceeds of the 2009 Bonds were used to: (i) design, construct and equip a youth center facility (including capitalized interest) (the “Juvenile Justice Center Project”); and (ii) pay costs associated with the issuance of the 2009 Bonds. For more information on the Juvenile Justice Center Project, see “SECURITY AND SOURCES OF PAYMENT FOR THE 2017 BONDS – General – Ground Lease and Juvenile Justice Center Project.”

### **The Philadelphia Municipal Authority**

The Authority was organized by City Council in 1976 under the Act as The Equipment Leasing Authority of Philadelphia. On April 4, 1983, the Secretary of the Commonwealth of Pennsylvania (the “Commonwealth”) issued a Certificate of Amendment to the Authority under which the name of the Authority was changed to The Philadelphia Municipal Authority. See “THE AUTHORITY” herein.

### **Security for the 2017 Bonds**

The following is qualified in all respects by the information in this Official Statement under the caption “SECURITY AND SOURCES OF PAYMENT FOR THE 2017 BONDS” and the documents referenced under such caption.

The 2017 Bonds are payable by the Authority solely from (i) certain rental payments (the “Rent”) to be paid by the City under the Prime Lease, dated as of June 1, 2009 (the “2009 Prime Lease”), as amended by the First Amendment to Prime Lease, dated as of May 22, 2014 (the “2014 Prime Lease Amendment”), as further amended by the Second Amendment to Prime Lease, dated as of April 1, 2017 (the “2017 Prime Lease Amendment,” and together with the 2009 Prime Lease and the 2014 Prime Lease Amendment, the “Prime Lease”), each by and between the Authority, as Lessor, and the City, as Lessee, of the Leased Premises, consisting generally of the Juvenile Justice Center Project and the property on which it is located, as further described in the Indenture, and (ii) other funds held by the Trustee for such purpose. The Rent excludes such amounts necessary to provide for the Authority’s Administrative Expense and certain indemnification of the Authority by the City.

The Rent under the Prime Lease is sized to be sufficient to pay, among other things, the principal of and interest on the 2017 Bonds when due. The Rent is payable solely from the current revenues of the City, is subject to annual appropriation by the City, and the City Charter provides that it is the duty of City Council to appropriate to pay the Rent in each Fiscal Year. The City has covenanted in the Prime Lease and the Ordinance to include in its annual operating budget and appropriate in each Fiscal Year amounts sufficient to pay all Rent payments in such Fiscal Year when due. There can be no assurance that funds sufficient to pay such rental payments will be available in any Fiscal Year of the City. The

obligation of the City to pay the Rent pursuant to the Prime Lease from current revenues of the City is absolute and unconditional.

**The 2017 Bonds are limited obligations of the Authority payable solely from the Trust Estate (as defined herein), and are not obligations of the City, the Commonwealth or any other political subdivision thereof. The 2017 Bonds are not secured by the General Fund or any other fund of the City, and neither the general credit of the Authority nor the credit or taxing power of the City, the Commonwealth or any other political subdivision thereof is pledged to the payment of the principal of the 2017 Bonds, or the interest thereon or any premium or other costs incidental thereto. The Authority has no taxing power.**

### **Trustee**

U.S. Bank National Association is a national banking association formed under the laws of the United States of America and will serve as Trustee for the 2017 Bonds. The designated corporate trust office of U.S. Bank National Association is: Two Liberty Place, Suite 2000, 50 S. 16th Street, Philadelphia, Pennsylvania 19102.

### **Information Regarding The City of Philadelphia**

The City's Comprehensive Annual Financial Reports and other information about the City can be found on the City's website at [www.phila.gov/investor](http://www.phila.gov/investor) (the "City's Investor Website"). The "Terms of Use" statement of the City's Investor Website, which applies to all users of the City's Investor Website, provides, among other things, that the information contained therein is provided for the convenience of the user, that the City is not obligated to update such information, and that the information may not provide all information that may be of interest to investors. The information contained on the City's Investor Website does not constitute an offer to buy or sell securities, nor is it a solicitation therefor. The information contained on the City's Investor Website is not incorporated by reference in this Official Statement and persons considering a purchase of the 2017 Bonds should rely only on information contained in this Official Statement or incorporated by reference herein.

APPENDIX A provides information regarding the City, including relevant statutory provisions, financial information, litigation information, the relationship with the Pennsylvania Intergovernmental Cooperation Authority ("PICA") and the City's five-year plans. APPENDIX B contains socioeconomic and demographic information about the City. APPENDIX C contains the Comprehensive Annual Financial Report of the City for the Fiscal Year ended June 30, 2016 (the "Fiscal Year 2016 CAFR"). Certain information contained in APPENDIX A regarding the City is for periods prior to or subsequent to June 30, 2016. As a result, certain of the information in APPENDIX C is, at times, at variance with corresponding information concerning the City in APPENDIX A.

The City Controller has examined and expressed opinions on the basic financial statements of the City contained in the Fiscal Year 2016 CAFR. The City Controller has not participated in the preparation of this Official Statement nor in the preparation of the budget estimates and projections and cash flow statements and forecasts set forth in various tables contained in this Official Statement. Consequently, the City Controller expresses no opinion with respect to any of the data contained in this Official Statement other than what is contained in the basic financial statements of the City in the Fiscal Year 2016 CAFR.

The Authority makes no representation as to the accuracy of any information contained in, or referenced in, this Official Statement relating to the City. Because the general credit of the Authority is not pledged to the payment of the 2017 Bonds, no financial information or operating data with respect to the Authority has been included in this Official Statement.

## **Miscellaneous**

Brief descriptions of the Authority, the 2017 Bonds, the Prime Lease, the Ground Lease (as defined herein), and the Indenture are included in this Official Statement. The summaries of the documents contained herein do not purport to be complete, comprehensive or definitive and are qualified in their entirety by reference to the entire text of such documents, and the description herein of the 2017 Bonds is qualified in its entirety by reference to the forms thereof and the information with respect thereto included in the aforesaid documents. All such descriptions are further qualified in their entirety by reference to laws and principles of equity relating to or affecting generally the enforcement of creditors' rights.

Copies of the Ordinance, the Indenture, the Prime Lease, and the Ground Lease may be obtained from the Authority and, during the initial offering period, at the principal offices of Citigroup Global Markets Inc., the representative of the Underwriters. After initial delivery of the 2017 Bonds, such copies may be obtained from the Trustee at its designated corporate trust office.

This Official Statement speaks only as of the date printed on the cover page hereof. The information contained herein is subject to change. This Official Statement will be made available through the Municipal Securities Rulemaking Board's Electronic Municipal Market Access system, accessible at <http://emma.msrb.org>.

## **THE AUTHORITY**

### **Organization and Powers**

The Authority, a body corporate and politic, was organized and exists under and by virtue of the laws of the Commonwealth. It was incorporated on January 9, 1976 under the name of The Equipment Leasing Authority of Philadelphia, pursuant to the Act and an ordinance of City Council approved December 23, 1975 (Bill No. 2201) for the purpose of leasing equipment to the City. Pursuant to an ordinance effective March 24, 1983 (Bill No. 1530), City Council approved a change to the Authority's present name. City Council adopted an ordinance (Bill No. 071082) approved by the Mayor on January 3, 2008, which extended the term of the Authority's existence to January 1, 2054.

Various ordinances of City Council have expanded the Authority's powers, including the ordinance (Bill No. 140073) approved by the Mayor on April 4, 2014, which expanded the Authority's powers to include, in addition to those previously granted, the power to undertake any project (as defined in the Act) that the Authority is specifically authorized to undertake from time to time by ordinance of City Council. The issuance of the 2017 Bonds for the refunding of the 2009 Bonds has been approved by the City in the Ordinance.

## **Board of the Authority**

The governing body of the Authority is a Board of five members, appointed by an affirmative vote of two-thirds of all members of City Council from nominations made by the Mayor of the City. Members of the Board are appointed for five-year terms, staggered one year apart. Currently serving on the Board are:

<b>Board Member and Position</b>	<b>Term Expires</b>
Robert A. Zuritsky, Chairman	January 1, 2016*
Rasheia R. Johnson, Vice Chair**	January 1, 2017*
Leonard V. Cid, Treasurer	January 1, 2013*
Michelle Lai, Member	January 1, 2019
Ahmennah Young, Member	January 1, 2019

\* If term expires, the Board Member continues to serve until successor is appointed.

\*\* Ms. Johnson is also the City Treasurer.

Lorna B. Gallman is the Executive Director and Secretary of the Authority.

## **Financing Program of the Authority**

The Authority has a number of limited obligation bond issues outstanding and may issue other debt from time to time. Each such issue is payable solely from revenues derived from the project being financed, from special funds established therefor or from other financing arrangements. Each issue is separately secured, and is separate and independent from the 2017 Bonds as to sources of payment and security.

The 2017 Bonds, together with any other Bonds (including the Non-Refunded 2009 Bonds), will be payable solely from the funds pledged under the Indenture, and any other obligations issued by the Authority are payable solely from funds specifically pledged for the payment of such other obligations. Accordingly, a default on another issue of obligations issued by the Authority (other than the 2009 Bonds or any Additional Bonds) would not constitute a default on the 2017 Bonds. The Authority may from time to time enter into further financing transactions with other entities in connection with projects unrelated to the 2017 Bonds. Such transactions will provide for the issuance of bonds or notes to be secured by separate sources of revenues or other security.

## **Miscellaneous**

The Authority has not prepared or assisted in the preparation of this Official Statement. Except for the statements made under the headings "THE AUTHORITY" and "NO LITIGATION – The Authority," the Authority is not responsible for and does not represent or warrant in any way the accuracy or completeness of any information or any statements made herein. Accordingly, except as aforesaid, the Authority disclaims responsibility for the disclosures set forth herein made in connection with this offer, sale, and distribution of the 2017 Bonds.

The Authority's address is One Parkway Bldg., 1515 Arch Street, 9th Floor, Philadelphia, PA 19102.

## **THE 2017 BONDS**

### **General**

The 2017 Bonds will be dated their date of delivery and will bear interest at the respective rates per annum and will mature in the amounts and on the dates set forth on the inside cover page hereof. The 2017 Bonds are being issued as fully registered bonds without coupons in the denomination of \$5,000 and integral multiples thereof. Interest on the 2017 Bonds will be payable semi-annually on each April 1 and October 1, commencing October 1, 2017 (each such date being an “Interest Payment Date”). Interest will be computed on the basis of a year of 360 days consisting of twelve 30-day months.

The principal of the 2017 Bonds will be payable at the designated corporate trust office of the Trustee upon presentation and surrender of the 2017 Bonds by the Registered Owners thereof. Interest on each 2017 Bond is payable by check or draft of the Trustee mailed to the person in whose name each 2017 Bond is registered on the registration books maintained by the Trustee at the close of business on the Record Date (which is the fifteenth day of the month, whether or not a Business Day, preceding the month in which an Interest Payment Date occurs) or by wire transfer to the Registered Owner of at least \$1,000,000 in aggregate principal amount of the 2017 Bonds upon written notice provided by the Registered Owner to the Trustee not less than five (5) days prior to the applicable Record Date.

If there is a default in the payment of interest due on any Interest Payment Date, such defaulted interest will be paid to the Registered Owners in whose name any such 2017 Bonds (or any such bond issued upon transfer or exchange thereof) are registered as of the close of business on a special record date for the payment of such defaulted interest to be fixed by the Trustee, and notice thereof will be mailed to the Registered Owners not less than ten (10) days preceding such special record date. Such special record date will not be more than fifteen (15) nor less than ten (10) days prior to the date of the proposed payment of defaulted interest.

Notwithstanding the foregoing, while the 2017 Bonds are issued and registered in book-entry only form, interest and principal shall be payable in the manner described in APPENDIX G hereto. The 2017 Bonds will be issued initially in “book-entry” form only.

### **Transfer and Exchange**

Subject to the book-entry provisions described in APPENDIX G hereto, the 2017 Bonds may be transferred and exchanged upon delivery thereof to the designated corporate trust office of the Trustee, to the extent and upon the conditions set forth in the Indenture. No service charge shall be made for any exchange or transfer, but the Authority or the Trustee may require payment of a sum sufficient to cover any tax or other governmental charge that may be imposed.

Neither the Authority nor the Trustee is required to transfer or exchange any 2017 Bonds during the fifteen (15) days immediately preceding the date of selection of 2017 Bonds to be redeemed and ending at the close of business on the date on which the notice of redemption is given, or to transfer or exchange any 2017 Bond selected or called for redemption in whole or in part. No transfer or exchange made other than as described above and in the Indenture shall be valid or effective for any purposes thereunder.

If any 2017 Bond is mutilated, lost, stolen or destroyed, the Authority shall execute and the Trustee shall authenticate and deliver a new 2017 Bond of like tenor and denomination. The Authority and the Trustee may require reasonable indemnification and may charge the holder of the 2017 Bond with the cost of replacing any 2017 Bond mutilated, lost, stolen or destroyed.



## Redemption Provisions

*Optional Redemption.* The 2017 Bonds maturing on or after April 1, 2028, shall be subject to optional redemption by the Authority, at the direction of the City, on or after April 1, 2027, in whole or in part at any time (and, if in part, in such order of maturity and amount as the Authority may direct in writing, and within a maturity as selected by lot in such manner as the Trustee may determine), upon payment of the principal amount of the 2017 Bonds, plus accrued interest to the redemption date.

*Extraordinary Optional Redemption.* The 2017 Bonds and any other Additional Bonds are subject to extraordinary optional redemption in the event that there are no 2009 Bonds outstanding and there is an actual destruction or condemnation of, or damage to, all or part of the Leased Premises as the result of which the Authority, the City or the Trustee realizes any insurance or condemnation proceeds, in which case (to the extent such proceeds are not applied to repair or replace the Leased Premises pursuant to the Prime Lease), but subject to the satisfaction of the requirements of the Indenture, the Authority, at the written request of the City (directing the series of 2017 Bonds and/or other Additional Bonds and maturity or maturities to be redeemed), may direct the Trustee to effect an extraordinary optional redemption, without premium, of a principal amount of 2017 Bonds and/or any other Additional Bonds equal to the amount of such insurance or condemnation proceeds, on any Interest Payment Date; provided that, in the event of a condemnation of the Leased Premises, the extraordinary optional redemption procedures described herein will only apply to the extent that such condemnation is not initiated or effected by the City or an entity controlled by or related to the City. As a precondition to any extraordinary optional redemption, the City shall deliver to the Authority and the Trustee a Consulting Engineer's Certificate (as defined in the Indenture) stating: (a) that there has been an actual destruction or condemnation of, or damage to, all or part of the Leased Premises, which has resulted in the payment of insurance or condemnation proceeds; (b) the dollar amount of such insurance or condemnation proceeds realized; and (c) that, in the judgment of the Consulting Engineer, the repair or replacement of the Leased Premises with such insurance or condemnation proceeds is impractical.

*Selection of 2017 Bonds for Redemption.* If less than all of a maturity of 2017 Bonds are to be redeemed, the particular 2017 Bonds, or portions thereof, of such maturity will be selected by lot in such manner as the Trustee may deem appropriate and fair.

*Notice of Redemption.* Notice of any redemption shall be given not less than thirty (30) days prior to the redemption date by mailing by first class mail (certified mail return receipt requested in the case of Registered Owners of \$1,000,000 or more) a copy of the redemption notice to the Registered Owner of each 2017 Bond to be redeemed in whole or in part at the address shown on the registration books kept by the Trustee. Any 2017 Bonds called for redemption will be payable at the designated corporate trust office of the Trustee. Notice of an optional redemption may be conditioned upon the deposit of monies with the Trustee on or prior to the date fixed for redemption, and, if conditional, such notice shall be of no effect unless such monies are so deposited. All 2017 Bonds or portions thereof so called for redemption shall cease to accrue interest on the specified redemption date.

Any notice of redemption mailed in accordance with the requirements set forth in the Indenture shall be conclusively presumed to have been duly given, whether or not such notice is actually received by the Bondholder. No defect in the notice with respect to any 2017 Bond (whether in the form of notice or the mailing thereof) shall affect the validity of the redemption proceedings for any other 2017 Bond.

Notwithstanding the foregoing, while the 2017 Bonds are issued and registered in book-entry only form, redemptions of the 2017 Bonds shall occur in the manner described in APPENDIX G hereto.

## **Additional Bonds and Non-Refunded 2009 Bonds**

The 2017 Bonds and any Non-Refunded 2009 Bonds will be equally and ratably secured on a parity basis with each other and with any Additional Bonds issued under the terms of the Indenture. The Indenture provides for the issuance of Additional Bonds (i) to pay the cost of Capital Additions or to reimburse expenditures of the Authority or the City for any such costs, and (ii) to pay the cost of refunding any bonds previously issued under the Indenture, under the circumstances and upon satisfaction of certain conditions described therein (including an ordinance of City Council approving the issuance of the Additional Bonds and the terms thereof if not otherwise approved). For more information on the Indenture, the Ground Lease, and the Prime Lease, see “SUMMARY OF CERTAIN PROVISIONS OF THE INDENTURE, THE GROUND LEASE, AND THE PRIME LEASE” in APPENDIX D hereto.

## **SECURITY AND SOURCES OF PAYMENT FOR THE 2017 BONDS**

### **General**

The 2017 Bonds are limited obligations of the Authority and are payable solely from the revenues pledged under the Indenture for their payment and derived by the Authority under the Prime Lease. Pursuant to the Indenture, Rent payable by the City pursuant to the Prime Lease is pledged as part of the Trust Estate (defined below).

**The 2017 Bonds are not obligations of the City, the Commonwealth or any other political subdivision thereof. The 2017 Bonds are not secured by the General Fund or any other fund of the City, and neither the general credit of the Authority, nor the credit or taxing power of the City, the Commonwealth or any other political subdivision thereof is pledged to the payment of the principal of the 2017 Bonds or interest thereon or any premium or other cost incident thereto. The Authority has no taxing power.**

**The City’s obligations under the Prime Lease are not part of the indebtedness of the City within the meaning of any constitutional or statutory provision relating to the incurrence of debt by the City, and the City has not pledged its full faith and credit or its taxing power for the payment of its obligations under the Prime Lease.**

*Indenture; Trust Estate.* In order to secure the payment of the principal or redemption price of and interest on, all Bonds issued under the Indenture, including the 2017 Bonds and any Non-Refunded 2009 Bonds, the rights of the Bondholders, and the performance and observance by the Authority of all of the covenants in the Bonds and the Indenture, the Authority, pursuant to the Indenture, has assigned to the Trustee: (i) the right, title and interest of the Authority in and to the Prime Lease (except for the Authority’s rights with respect to indemnity and Authority’s Administrative Expenses thereunder and the Authority’s obligations thereunder, which can only be performed by the Authority), (ii) the Pledged Revenues, which includes the revenues received or receivable by the Authority from the City or any other persons pursuant to the Prime Lease (except for the Administrative Expenses and the sums payable in connection with the Authority’s rights with respect to indemnity), and any and all amounts payable to the Authority on account of the Leased Premises and all funds and income and receipts on the funds held by the Trustee under the Indenture, and (iii) all moneys and securities from time to time held by the Trustee under the terms of the Indenture (items (i), (ii), and (iii) are collectively referred to herein as the “Trust Estate”). At the time of delivery of the 2017 Bonds, the Authority will, among other things, confirm its assignment of all of its rights under the Prime Lease (other than its reserved rights) to the Trustee.

*Prime Lease.* The City has agreed in the Prime Lease to pay to the Trustee, as assignee of the Authority, Rent in amounts sufficient, among other things, to: (i) pay the principal, premium, if any, and

interest then becoming due on the Bonds issued under the Indenture, including the 2017 Bonds, and any Non-Refunded 2009 Bonds, whether by maturity (other than by reason of acceleration under the Indenture), redemption or otherwise; (ii) such amount as shall provide for the Authority's Administrative Expenses incurred in connection with the Leased Premises and the Juvenile Justice Center Project, to the extent not otherwise paid by the City, including an amount which is sufficient to make any payment required to be made by the Authority to the United States Treasury pursuant to the Indenture; and (iii) all amounts due and payable under any other obligations under the Prime Lease to the extent not provided for in items (i) and (ii). Additionally, from time to time, the City shall be required to make payments necessary to make up any deficiency in the funds established under the Indenture (to the extent not provided for in items (i)-(iii) above), or to pay for any cost overruns with respect to any Capital Addition to the extent the City has funds appropriated for such purposes in such Fiscal Year. See "-- Rent Payable Out of Current Revenues; Covenant to Budget and Appropriate; Not City Indebtedness" below.

The failure of the City to pay Rent or any other amount, charge, fee or sum required to be paid by the City under the Prime Lease when due constitutes a default under the Prime Lease if such failure continues for two (2) business days thereafter. A default under the Prime Lease will not cause an acceleration of payments thereunder. See "-- Remedies for Bondholders" below.

*City Charter.* The City's Home Rule Charter, at 351 Pa. Code § 2.2-309 (the "City Charter"), provides that it is the duty of City Council to make annual appropriations to pay amounts coming due under the Prime Lease as provided in the Ordinance, as further described below. The City Charter permits City Council to authorize the leasing of real estate for more than one year without making appropriations therefor beyond the current year. Such leases are valid and binding upon the City although no appropriations have been made for the ensuing years during which such agreements are to be operative, but it is the duty of City Council to make subsequent appropriations from year to year to pay amounts coming due under such leases. The Prime Lease constitutes such a lease.

*Ordinance.* Pursuant to the Ordinance, City Council has authorized the Prime Lease. The City has covenanted in the Ordinance to budget and make appropriations in each and every Fiscal Year in such amounts as will be required to make all Rent payments and pay all other amounts due and payable under the Prime Lease, and to make such payments to the Trustee, as assignee of the Authority, so long as the bonds issued by the Authority under the Indenture are outstanding.

*Obligation of City to Pay Rent is Absolute and Unconditional.* The Prime Lease provides that the City is required to pay the Rent and additional amounts required under the Prime Lease with respect to administrative fees and expenses. The Ordinance and the Prime Lease provide that the obligation of the City to pay the Rent from current revenues of the City shall be absolute and unconditional and shall not be suspended, abated, reduced, abrogated, waived, diminished or otherwise modified in any manner or to any extent whatsoever, and regardless of any rights of setoff, recoupment or counterclaim that the City might otherwise have or assert against the Authority or the Trustee or any other party or parties and regardless of any contingency, act of God, event or cause whatsoever and notwithstanding any circumstances or occurrence that may arise or take place. The obligations of the City to make payments under the Prime Lease shall continue in full force and effect so long as any of the 2017 Bonds remain outstanding.

*Ground Lease and Juvenile Justice Center Project.* The Juvenile Justice Center Project contains, among other things, a secure residential detention facility providing educational, health and social services to juveniles, other related facilities, and parking improvements. The Juvenile Justice Center Project is primarily located on property located at 91 North 48th Street, Philadelphia, Pennsylvania, which is owned by the City and was leased to the Authority pursuant to a Ground Lease, dated as of June 1, 2009 (the "Original Ground Lease"), as amended by the First Amendment to Ground Lease dated as of

April 1, 2017 (the “2017 Ground Lease Amendment,” and together with the Original Ground Lease, the “Ground Lease”) each by and between the City and the Authority. The Authority constructed the Juvenile Justice Center Project and leased it to the City pursuant to the 2009 Prime Lease. The terms of the Prime Lease and the Ground Lease extend to the final maturity date of the 2017 Bonds. No payments pursuant to the Ground Lease secure the Bonds.

For more information on the Indenture, Ground Lease, and the Prime Lease, see “SUMMARY OF CERTAIN PROVISIONS OF THE INDENTURE, THE GROUND LEASE, AND THE PRIME LEASE” in APPENDIX D hereto.

### **Rent Payable Out of Current Revenues; Covenant to Budget and Appropriate**

The Rent is payable only out of current revenues of the City, and is subject to annual appropriation by the City. The City has agreed in the Prime Lease to provide for the payment of the Rent and include the same in its annual operating budget for each Fiscal Year. The City has covenanted in the Prime Lease to make appropriations in each of its Fiscal Years in such amounts as shall be required in order to make all Rent payments due and payable under the Prime Lease in each of the City’s Fiscal Years. If the City’s current revenues are insufficient to pay the total Rent in any Fiscal Year as the same become due and payable, the City has covenanted in the Prime Lease to include amounts not so paid in its operating budget for the ensuing Fiscal Year and to produce sufficient current revenues to pay in each ensuing Fiscal Year such balance due for the preceding Fiscal Year in addition to the amount of the Rent due for such ensuing Fiscal Year. See APPENDIX A – “DISCUSSION OF FINANCIAL OPERATIONS – Budget Procedure” hereto.

### **Remedies for Bondholders**

The failure to pay, as the case may be, interest on, or principal or redemption price of, the 2017 Bonds when due constitutes an Event of Default under the Indenture. Upon the occurrence and continuation of such an Event of Default, the Trustee may (or, at the direction of bondholders on the terms set forth in the Indenture, shall) declare the principal amount of the 2017 Bonds then outstanding (together with related outstanding parity obligations to the extent set forth in the Indenture), to be immediately due and payable.

In addition, if such an Event of Default has occurred and is continuing, the Trustee may (or, at the direction of bondholders on the terms set forth in the Indenture, shall), in its own name exercise certain remedies in accordance with the terms set forth in the Indenture including: (a) by mandamus, or other suit, action or proceeding at law or in equity, enforce all rights of the bondholders, including the right to require the Authority to charge and collect rates, rentals and other charges adequate to carry out the terms of the Indenture and to require the Authority to carry out any other agreements with, or for the benefit of, the bondholders and to perform its duties under the Act; (b) bring suit upon the Bonds or the Prime Lease; (c) by action or suit in equity require the Authority to account as if it were the Trustee of an express trust for the bondholders; (d) by action or suit in equity enjoin any acts or things which may be unlawful or in violation of the rights of the bondholders; (e) exercise any or all other rights and remedies provided for by the Act or by any other law; and (f) exercise all rights and remedies granted to the Authority under the Prime Lease.

Upon the occurrence and continuance of an event of default under the Prime Lease, the Authority (or the Trustee as assignee of the Authority) may, at its option exercise one or more of certain remedies including, among other things, instituting proceedings to require the City to perform its obligations under the Prime Lease or to enjoin violations of the Authority’s rights under the Prime Lease. If the Prime Lease is terminated upon the occurrence and continuance of an event of default thereunder, (a) such

termination will not relieve the City of previously accrued obligations under the Prime Lease, (b) the City will peaceably surrender the Leased Premises, (c) the Authority may relet any or all of the Leased Premises on such terms as it elects, but the Authority will not be liable for any failure to relet or to collect any rent due upon reletting, and (d) the City will pay to the Authority on the dates on which payments required under the Prime Lease or under the Indenture would have been payable, amounts equal to such installments less the net proceeds of any reletting. In determining such net proceeds, the Authority will deduct from all sums collected amounts equal to all charges, expenses or commissions reasonably incurred in collecting such sums and/or operating and administering the Leased Premises.

*In no event (including an acceleration of the Authority's payment obligations under the 2017 Bonds) will payment of Rent due under the Prime Lease be accelerated. Accordingly, although the Trustee can accelerate the Authority's payment obligations with respect to the 2017 Bonds, neither the Authority nor the Trustee is empowered to accelerate the City's obligations under the Prime Lease to make payments thereunder in amounts sufficient to pay, among other things, the principal of and interest on the 2017 Bonds upon the occurrence and continuance of an Event of Default under the Indenture.*

For additional information regarding the rights of bondholders and remedies available upon the occurrence of an Events of Default under the Indenture and the Prime Lease, as well as limitations on such rights and remedies, see APPENDIX D.

The rights and remedies of bondholders with respect to the City's and the Authority's obligations under the Prime Lease and the 2017 Bonds could be significantly limited by the provisions of Chapter 9 of the United States Bankruptcy Code ("Chapter 9"). Chapter 9 permits, under prescribed circumstances (and only after an authorization by the applicable state legislature or by a governmental office or organization empowered by state law to give such authorization), a "municipality" of a state to file a petition for relief in a bankruptcy court of the United States if it is insolvent or unable to meet its debts as they mature, and it desires to effect a plan to adjust its debt. Chapter 9 defines "municipality" as a "political subdivision or public agency or instrumentality of a State." Thus, for purposes of Chapter 9, except as may be limited by state law, each of the Authority and the City would be considered a "municipality." As a result of the commencement of a federal bankruptcy case by either the City or the Authority, bondholders could experience delays in receiving bond payments, as well as partial or total losses of their investments in the 2017 Bonds.

The Pennsylvania Intergovernmental Cooperation Authority Act for Cities of the First Class (Pa. P.L. 9, No. 6 (1991)) (the "PICA Act"), prohibits the City from filing a petition for relief under Chapter 9 of the United States Bankruptcy Code so long as PICA has outstanding any bonds issued pursuant to the PICA Act. As of February 28, 2017, the principal amount of PICA bonds outstanding was \$266,095,000. The final maturity date for such PICA bonds is June 15, 2023. Furthermore, if no PICA bonds are outstanding, the PICA Act requires approval in writing by the Governor of the Commonwealth for a filing under Chapter 9 by the City. If the Governor were to grant an approval for the City to file a petition under Chapter 9, and the City were to file, provisions of the United States Bankruptcy Code could limit the enforcement of bondholders' rights and remedies. See APPENDIX A – "THE GOVERNMENT OF THE CITY OF PHILADELPHIA – Local Government Agencies – *Non-Mayor-Appointed or Nominated Agencies* – PICA."

No Pennsylvania law currently permits an entity such as the Authority to file a petition under Chapter 9 nor is there any state law that permits any state official to authorize such a filing by the Authority.

Regardless of any specific adverse determinations in an Authority or City bankruptcy proceeding, the existence of such a proceeding could have a materially adverse effect on the liquidity and value of the 2017 Bonds.

## PLAN OF FINANCE AND ESTIMATED SOURCES AND USES OF FUNDS

The proceeds of the 2017 Bonds are being used to (i) refund the 2009 Bonds maturing on April 1, 2023 and April 1, 2024 (each a serial bond) and maturing on April 1, 2022, April 1, 2029, April 1, 2034, and April 1, 2039 (each a term bond) (collectively, the “Refunded Bonds”), and (ii) pay the costs of issuing the 2017 Bonds. The 2009 Bonds maturing on April 1, 2018 and April 1, 2019 will not be refunded with proceeds of the 2017 Bonds and constitute the “Non-Refunded 2009 Bonds.”

A portion of the proceeds of the 2017 Bonds will be (i) deposited in an escrow fund established under an Escrow Deposit Agreement dated as of April 25, 2017, among the City, the Authority, and U.S. Bank National Association, as escrow agent, (ii) invested in United States Treasury securities, and (iii) applied to the payment of the interest on and redemption price of the Refunded Bonds, as they become due and payable, to and including April 1, 2019, the date fixed for the redemption of the Refunded Bonds. See “VERIFICATION” herein.

The following table sets forth estimated sources and uses of funds in connection with the 2017 Bonds:

### Sources of Funds

Principal Amount.....	\$83,220,000.00
Original Issue Premium.....	10,632,280.20
<b>Total Sources of Funds</b>	<b><u>\$93,852,280.20</u></b>

### Uses of Funds

Refunding of the Refunded Bonds .....	\$92,790,029.78
Costs of Issuance <sup>(1)</sup> .....	1,062,250.42
<b>Total Uses of Funds</b>	<b><u>\$93,852,280.20</u></b>

<sup>(1)</sup> Includes legal fees, Underwriters’ discount, printing, rating agency fees, trustee fees, escrow agent fees, co-financial advisor fees, verification agent fees, and other expenses of the offering.

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## FISCAL YEAR DEBT SERVICE REQUIREMENTS

Set forth below is the schedule of fiscal year debt service on the Non-Refunded 2009 Bonds and the 2017 Bonds.

Fiscal Year Ending June 30	Non-Refunded 2009 Bonds			2017 Bonds			All Outstanding Bonds
	Principal	Interest	Total	Principal	Interest	Total	Total
2017	\$1,900,000	\$5,711,174	\$7,611,174	-	-	-	\$7,611,174
2018	2,000,000	223,275	2,223,275	\$700,000	\$3,866,380	\$4,566,380	6,789,655
2019	2,105,000	115,775	2,220,775	445,000	4,121,550	4,566,550	6,787,325
2020	-	-	-	2,690,000	4,103,750	6,793,750	6,793,750
2021	-	-	-	2,820,000	3,969,250	6,789,250	6,789,250
2022	-	-	-	2,965,000	3,828,250	6,793,250	6,793,250
2023	-	-	-	3,110,000	3,680,000	6,790,000	6,790,000
2024	-	-	-	3,265,000	3,524,500	6,789,500	6,789,500
2025	-	-	-	3,430,000	3,361,250	6,791,250	6,791,250
2026	-	-	-	3,600,000	3,189,750	6,789,750	6,789,750
2027	-	-	-	3,785,000	3,009,750	6,794,750	6,794,750
2028	-	-	-	3,970,000	2,820,500	6,790,500	6,790,500
2029	-	-	-	-	2,622,000	2,622,000	2,622,000
2030	-	-	-	4,170,000	2,622,000	6,792,000	6,792,000
2031	-	-	-	4,380,000	2,413,500	6,793,500	6,793,500
2032	-	-	-	4,595,000	2,194,500	6,789,500	6,789,500
2033	-	-	-	4,830,000	1,964,750	6,794,750	6,794,750
2034	-	-	-	5,065,000	1,723,250	6,788,250	6,788,250
2035	-	-	-	5,320,000	1,470,000	6,790,000	6,790,000
2036	-	-	-	5,585,000	1,204,000	6,789,000	6,789,000
2037	-	-	-	5,865,000	924,750	6,789,750	6,789,750
2038	-	-	-	6,160,000	631,500	6,791,500	6,791,500
2039	-	-	-	6,470,000	323,500	6,793,500	6,793,500
<b>Total</b>	<b>\$6,005,000</b>	<b>\$6,050,224</b>	<b>\$ 12,055,224</b>	<b>\$83,220,000</b>	<b>\$57,568,680</b>	<b>\$140,788,680</b>	<b>\$152,843,904</b>

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## **NO LITIGATION**

### **The Authority**

There is no controversy or litigation of any nature now pending or threatened seeking to restrain or enjoin the issuance, sale, execution or delivery of the 2017 Bonds or contesting any proceedings of the Authority with respect to the issuance or sale thereof, or the pledge or application of any monies or security provided for the payment of the 2017 Bonds or the existence or powers of the Authority or the validity or enforceability of the 2017 Bonds, the Indenture, the Prime Lease, or the Ground Lease.

### **The City**

Upon delivery of the 2017 Bonds, the City of Philadelphia Law Department (the “Law Department”) shall furnish an opinion to the effect, among other things, that, except for litigation which in the opinion of the Law Department is without merit and except as disclosed in this Official Statement (including APPENDIX A), to the best of its knowledge after customary inquiry, there is no litigation pending against the City before any court, public board or agency or threatened in writing against the City, (i) seeking to restrain or enjoin the issuance, delivery, or sale of the 2017 Bonds or the execution or delivery of the 2017 Bonds, the Indenture, the Prime Lease, or the Ground Lease or the performance of the City’s obligations thereunder, (ii) contesting the validity of the Ordinance, (iii) contesting the validity or enforceability of the City’s obligations under the 2017 Bonds, the Indenture, the Prime Lease, or the Ground Lease, or (iv) in which a final adverse decision can be anticipated which would reasonably be expected to materially and adversely affect the financial condition or operations of the City as a whole or the performance by the City of its obligations under the 2017 Bonds, the Indenture, the Prime Lease, or the Ground Lease.

## **RATINGS**

Moody’s Investors Service, Inc., Standard & Poor’s Ratings Group, and Fitch Ratings have assigned the 2017 Bonds ratings of “A2,” negative outlook, “A+,” negative outlook, and “A-,” stable outlook, respectively. Such ratings reflect only the view of each such credit rating agency. An explanation of the significance of each of such ratings and any outlook may only be obtained from the rating agency furnishing the same.

A rating is not a recommendation to buy, sell or hold securities and may be subject to revision or withdrawal at any time. There is no assurance that any such credit rating will continue for any given period of time or that it will not be revised or withdrawn entirely by such credit rating agency if, in its judgment, circumstances so warrant. None of the Authority, City or the Underwriters has undertaken any responsibility to assure the maintenance of any rating. The City has agreed, in the Continuing Disclosure Agreement, to report actual rating changes on the 2017 Bonds. See “CONTINUING DISCLOSURE UNDERTAKING” herein and APPENDIX E hereto. Any such downgrade, revision or withdrawal of a rating may have an adverse effect on the market price of or the market for the 2017 Bonds.



## **APPROVAL OF LEGAL MATTERS**

The 2017 Bonds are offered when, as and if issued by the Authority and accepted by the Underwriters, subject to the receipt of approving opinions with respect to certain legal matters of Cozen O'Connor and Ahmad Zaffarese LLC, Co-Bond Counsel, both of Philadelphia, Pennsylvania. The proposed form of approving opinion of Co-Bond Counsel is attached hereto as APPENDIX F. Certain other legal matters will be passed upon for the Authority by Austin J. McGreal, Esquire, Philadelphia, Pennsylvania, Counsel to the Authority, and for the Underwriters by their counsel, Eckert Seamans Cherin & Mellott, LLC, Philadelphia, Pennsylvania. Certain legal matters will be passed upon for the City by the City of Philadelphia Law Department. Hawkins Delafield & Wood LLP and Law Office of Ann C. Lebowitz, Philadelphia, Pennsylvania, as Co-Disclosure Counsel to the City, will each deliver an opinion to the City and the Underwriters regarding certain matters.

The various legal opinions to be delivered concurrently with the delivery of the 2017 Bonds express the professional judgment of the law firms rendering the opinions as to the legal issues explicitly addressed therein. In rendering a legal opinion, the law firm does not become an insurer or guarantor of that expression of professional judgment, of the transaction opined upon, or of the future performance of parties to the transaction. Nor does the rendering of an opinion guarantee the outcome of any legal dispute that may arise out of the transaction.

## **TAX MATTERS**

### **Federal Tax Exemption**

The Internal Revenue Code of 1986, as amended (the "Code") contains provisions relating to the tax-exempt status of interest on obligations issued by governmental entities which apply to the 2017 Bonds. These provisions include, but are not limited to, requirements relating to the use and investment of the proceeds of the 2017 Bonds and the rebate of certain investment earnings derived from such proceeds to the United States Treasury Department on a periodic basis. These and other requirements of the Code must be met by the Authority and the City subsequent to the issuance and delivery of the 2017 Bonds in order for interest thereon to be and remain excludable from gross income for purposes of federal income taxation. The Authority and the City have covenanted to comply with such requirements.

In the opinion of Co-Bond Counsel, interest on the 2017 Bonds will be excluded from gross income for purposes of federal income taxation under existing statutes, regulations, rulings and court decisions. The opinion of Co-Bond Counsel is subject to the condition that the Authority and the City comply with all applicable federal income tax law requirements that must be satisfied subsequent to the issuance of the 2017 Bonds in order that interest thereon continues to be excluded from gross income. The Authority and the City have covenanted to comply with all such requirements. Failure to comply with certain of such requirements could cause the interest on the 2017 Bonds to be includable in gross income retroactive to the date of issuance of the 2017 Bonds. Interest on the 2017 Bonds is not treated as an item of tax preference under Section 57 of the Code for purposes of the individual and corporate alternative minimum taxes; however, under the Code, to the extent that interest on the 2017 Bonds is a component of a corporate holder's "adjusted current earnings," a portion of that interest may be subject to the corporate alternative minimum tax.

In addition to the matters addressed above, prospective purchasers of the 2017 Bonds should be aware that ownership of the 2017 Bonds may result in collateral tax consequences to certain taxpayers, including, but not limited to, foreign corporations, certain S corporations, recipients of social security and railroad retirement benefits, financial institutions and property or casualty insurance companies. Co-Bond Counsel expresses no opinion regarding any other federal tax consequences relating to the 2017 Bonds or

the receipt of interest thereon, and prospective purchasers should consult their own tax advisors as to collateral federal income tax consequences.

No assurance can be given that amendments to the Code or other federal legislation will not be introduced and/or enacted which would cause the interest on the 2017 Bonds to be subject, directly or indirectly, to federal income taxation or adversely affect the market price of the 2017 Bonds or otherwise prevent the holders of the 2017 Bonds from realizing the full current benefit of the federal tax status of the interest thereon.

### **State Tax Exemption**

In the opinion of Co-Bond Counsel, under the existing laws of the Commonwealth, the interest on the 2017 Bonds is free from Pennsylvania personal income taxation and Pennsylvania corporate net income taxation, but such exemption does not extend to gift, estate, succession or inheritance taxes or any other taxes not levied or assessed directly on the 2017 Bonds or the interest thereon. Profits, gains or income derived from the sale, exchange or other disposition of the 2017 Bonds are subject to state and local taxation within the Commonwealth.

This summary is based on laws, regulations, rulings and decisions now in effect, all of which may change. Any change could apply retroactively and could affect the continued validity of this summary. **Prospective purchasers should consult their tax advisors about the consequences of purchasing or holding the 2017 Bonds.**

See APPENDIX F hereto for the Proposed Form of Co-Bond Counsel Opinion.

### **VERIFICATION**

AMTEC (the “Verification Agent”) will deliver to the City, on or before the date of the delivery of the 2017 Bonds, its report (the “Verification Report”) indicating that it has verified the mathematical accuracy of the information provided by the City and its representatives with respect to the refunding requirements of the Refunded Bonds. Included within the scope of its engagement will be a verification of (a) the mathematical accuracy of the computations of the adequacy of the cash and maturing principal of the securities to be placed in an escrow account to meet the scheduled payment of interest on the Refunded Bonds until redemption and the payment of the redemption price of the Refunded Bonds on the date fixed for the redemption as further described in “PLAN OF FINANCE AND ESTIMATED SOURCES AND USES OF FUNDS” above; and (b) the mathematical accuracy of the computations supporting the conclusion of Co-Bond Counsel that the 2017 Bonds are not “arbitrage bonds” under the Code and the regulations promulgated thereunder.

The verification performed by the Verification Agent will be based solely upon data, information and documents provided to the Verification Agent. The Verification Report will state that the Verification Agent has no obligation to update the Verification Report for events occurring, or data or information coming to their attention, subsequent to the date of the Verification Report.

## **UNDERWRITING**

The 2017 Bonds are being purchased by the Underwriters named on the cover page of this Official Statement, for whom Citigroup Global Markets Inc. (“CGMI”) is acting as the representative, subject to certain terms and conditions set forth in a Contract of Purchase between the City and CGMI as the representative of the Underwriters, at a purchase price of \$93,478,752.87, which reflects the par amount of the 2017 Bonds, plus original issue premium of \$10,632,280.20, less an Underwriters’ discount of \$373,527.33. The 2017 Bonds are offered for sale to the public at prices set forth on the inside front cover page of this Official Statement. The 2017 Bonds may be offered and sold to certain dealers (including the Underwriters and other dealers depositing 2017 Bonds into investment trusts) at prices lower than such offering prices, and such public offering prices may be changed from time to time by the Underwriters without prior notice.

The Underwriters and their respective affiliates are full service financial institutions engaged in various activities, which may include securities trading, commercial and investment banking, advisory, investment management, principal investment, hedging, financing and brokerage activities. Certain of the Underwriters and their respective affiliates have, from time to time, performed and may in the future perform, various investment banking services for the City for which they received or will receive customary fees and expenses.

In the ordinary course of their various business activities, the Underwriters and their respective affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (which may include bank loans and/or credit default swaps) for their own account and for the accounts of their customers and may at any time hold long and short positions in such securities and instruments. Such investment and securities activities may involve securities and instruments of the City.

CGMI, an Underwriter of the 2017 Bonds, has entered into a retail distribution agreement with UBS Financial Services Inc. (“UBSFS”). Under this distribution agreement, CGMI may distribute municipal securities to retail investors through the financial advisor network of UBSFS. As part of this arrangement, CGMI may compensate UBSFS for its selling efforts with respect to the 2017 Bonds.

## **FINANCIAL ADVISORS**

PFM Financial Advisors LLC of Philadelphia, Pennsylvania and Phoenix Capital Partners of Philadelphia, Pennsylvania are acting as co-financial advisors (together, the “Financial Advisors”) to the City in connection with the issuance of the 2017 Bonds. The Financial Advisors have assisted in the preparation of this Official Statement and in other matters relating to the planning, structuring and issuance of the 2017 Bonds. They have received and reviewed but have not independently verified information in this Official Statement for accuracy or completeness (except, as to each Financial Advisor, the information in this section). Investors should not draw any conclusions as to the suitability of the 2017 Bonds from, or base any investment decisions upon, the fact that the Financial Advisors have advised the City with respect to the 2017 Bonds. The Financial Advisors’ fees for this issue are contingent upon the sale and issuance of the 2017 Bonds.

The Financial Advisors are financial advisory and consulting organizations and not organizations engaged in the business of underwriting, marketing or trading of municipal securities or any other negotiable instruments.

## **CONTINUING DISCLOSURE AGREEMENT**

In order to assist the Underwriters in complying with the requirements of Rule 15c2-12 promulgated by the Securities and Exchange Commission under the Securities Exchange Act of 1934, as amended, the City (i) will enter into a Continuing Disclosure Agreement with Digital Assurance Certification, L.L.C., as dissemination agent for the benefit of the Registered Owners (as defined in such agreement) of the 2017 Bonds, to be dated the date of original delivery and payment for the 2017 Bonds, the form of which is annexed hereto as APPENDIX E, and (ii) has provided the disclosure in the following paragraphs.

During the previous five years, the City has failed on occasion to timely file event notices related to certain changes to ratings assigned to bonds issued by or on behalf of the City including: (i) certain rating changes (related to changes to the credit quality of banks providing credit and liquidity enhancement or support for certain variable rate bonds); and (ii) certain underlying credit rating changes. In other instances, the City timely filed such notices but did not associate the notices with all specific relevant outstanding obligations or filed the notice through incorporation by reference of information in an offering document. The foregoing description of instances of non-compliance by the City with its continuing disclosure undertakings should not be construed as an acknowledgement by the City that any such instance was material.

In connection with the continuing disclosure annual filing for Gas Works Revenue Bonds that was made in February 2016, certain annual financial information that should have been included was not filed until August 2016. The late-filed information was required by a continuing disclosure agreement that had been entered into in connection with Gas Works Revenue Bonds that were issued in August 2015. The information that the City filed in February 2016 satisfied all prior continuing disclosure agreements relating to Gas Works Revenue Bonds.

The City has reviewed and updated its disclosure policies and procedures to assist the City in complying with its continuing disclosure undertakings in the future.

## **CERTAIN RELATIONSHIPS**

Eckert Seamans Cherin & Mellott, LLC, counsel to the Underwriters, provides certain legal services to the City.

## MISCELLANEOUS

This Official Statement is made available only in connection with the sale of the 2017 Bonds and may not be used in whole or in part for any other purpose. This Official Statement is not to be construed as a contract or agreement between the Authority, the City, the Underwriters, and the purchasers or owners of any of the 2017 Bonds. Any statements made in this Official Statement involving matters of opinion, whether or not expressly so stated, are intended merely as opinions and not as representations of fact. No representation is made that any opinions or estimates herein will be realized. The information and expressions of opinion herein are subject to change without notice, and neither the delivery of this Official Statement nor any sale made hereunder shall, under any circumstances, create any implication that there has been no change in the affairs of the Authority or the City since the date hereof.

The attached Appendices are an integral part of this Official Statement and should be read in their entirety together with the foregoing statements.

The City makes no representations or warranties to investors as to the accuracy or timeliness of any information available on the City's Investor Website, any other websites maintained by the City or the Authority, or any hyperlinks referenced therein.

The execution and distribution of this Official Statement has been duly authorized by the Authority and approved by the City.

### THE PHILADELPHIA MUNICIPAL AUTHORITY

By: /s/ Robert A. Zuritsky

Name: Robert A. Zuritsky

Title: Chairman

Approved:

### THE CITY OF PHILADELPHIA

By: /s/ Rob Dubow

Name: Rob Dubow

Title: Director of Finance

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## **APPENDIX A**

### **GOVERNMENT AND FINANCIAL INFORMATION**

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## **THE GOVERNMENT OF THE CITY OF PHILADELPHIA**

### **Introduction**

The City of Philadelphia (the “City” or “Philadelphia”) is located along the southeastern border of the Commonwealth of Pennsylvania (the “Commonwealth” or “Pennsylvania”). The City is the largest city in the Commonwealth and the fifth largest city in the United States with approximately 1.57 million residents (based on 2016 estimates). The City is also the center of the United States’ seventh largest metropolitan statistical area, which is an 11-county area encompassing the City, Camden, NJ, and Wilmington, DE and represents approximately 6.07 million residents (based on 2016 estimates).

The City benefits from its strategic geographical location, relative affordability, cultural and recreational amenities, and its growing strength in key industries. The City is a business and personal services center with strengths in professional services, such as insurance, law, finance, healthcare and higher education, and leisure and hospitality. The cost of living in the City is relatively moderate compared to other major metropolitan areas in the northeast United States. In addition, the City, as one of the country’s education centers, offers the business community a large and diverse labor pool.

The University of Pennsylvania, Temple University, Drexel University, St. Joseph’s University, and La Salle University are certain of the well-known institutions of higher education located in the City. There are also a number of other well-known colleges and universities located near the City, notably including Villanova University, Bryn Mawr College, Haverford College, Swarthmore College, Lincoln University, and the Camden Campus of Rutgers University, among others.

The City is a center for health, education, research and science facilities. In the City, there are more than 30 hospitals, including the Children’s Hospital of Philadelphia, Hospital of the University of Pennsylvania, Hahnemann University Hospital, Einstein Medical Center-Philadelphia, and Temple University Hospital, among others, and schools of medicine, dentistry, pharmacy, optometry, podiatry, and veterinary medicine.

Tourism is important to the City and is driven by the City’s extraordinary historic and cultural assets. The City’s Historic District includes Independence Hall, the Liberty Bell, Carpenters’ Hall, the Betsy Ross House, and Elfreth’s Alley, the nation’s oldest residential street. The Parkway District includes the Philadelphia Museum of Art, the Barnes Foundation, and the Rodin Museum. The Avenue of the Arts, located along a mile-long section of South Broad Street between City Hall and Washington Avenue, includes the Kimmel Center, the Academy of Music, and other performing arts venues. All of the foregoing are key tourist attractions in the City.

For more information on the City’s demographic and economic resources and economic development initiatives, see APPENDIX B hereto.

### **History and Organization**

The City was incorporated in 1789 by an Act of the General Assembly of the Commonwealth (the “General Assembly”) (predecessors of the City under charters granted by William Penn in his capacity as proprietor of the colony of Pennsylvania may date to as early as 1682). In 1854, the General Assembly, by an act commonly referred to as the Consolidation Act: (i) made the City’s boundaries coterminous with the boundaries of Philadelphia County (the same boundaries that exist today) (the “County”); (ii) abolished all governments within these boundaries other than the City and the County; and (iii) consolidated the legislative functions of the City and the County. Article 9, Section 13 of the

Pennsylvania Constitution abolished all county offices in the City, provides that the City performs all functions of county government, and states that laws applicable to counties apply to the City.

Since 1952, the City has been governed under a Home Rule Charter authorized by the General Assembly (First Class City Home Rule Act, Act of April 21, 1949, P.L. 665, Section 17) and adopted by the voters of the City (as amended and supplemented, the “City Charter”). The City Charter provides, among other things, for the election, organization, powers and duties of the legislative branch (the “City Council”) and the executive and administrative branch, as well as the basic rules governing the City’s fiscal and budgetary matters, contracts, procurement, property, and records. Under Article XII of the City Charter, the School District of Philadelphia (the “School District”) operates as a separate and independent home rule school district. Certain other constitutional provisions and Commonwealth statutes continue to govern various aspects of the City’s affairs, notwithstanding the broad grant of powers of local self-government in relation to municipal functions set forth in the First Class City Home Rule Act.

Under the City Charter, there are two principal governmental entities in the City: (i) the City, which performs municipal and county functions; and (ii) the School District, which has boundaries coterminous with the City and responsibility for all public primary and secondary education.

The court system in the City, consisting of Common Pleas and Municipal Courts, is part of the Commonwealth judicial system. Although judges are paid by the Commonwealth, most other court costs are paid by the City, with partial reimbursement from the Commonwealth.

### **Elected and Appointed Officials**

The Mayor is elected for a term of four years and is eligible to be elected for no more than two successive terms. Each of the seventeen members of City Council is also elected for a four-year term, which runs concurrently with that of the Mayor. There is no limitation on the number of terms that may be served by members of City Council. Of the members of City Council, ten are elected from districts and seven are elected at-large. No more than five of the seven at-large candidates for City Council may be nominated by any one party or political body. The District Attorney and the City Controller are elected at the mid-point of the terms of the Mayor and City Council.

The City Controller’s responsibilities derive from the City Charter, various City ordinances and state and federal statutes, and contractual arrangements with auditees. The City Controller must follow Generally Accepted Government Auditing Standards, established by the federal Government Accountability Office (formerly known as the General Accounting Office), and Generally Accepted Auditing Standards, promulgated by the American Institute of Certified Public Accountants.

The City Controller post-audits and reports on the City’s and the School District’s Comprehensive Annual Financial Reports (“CAFRs”), federal assistance received by the City, and the performance of City departments. The City Controller also conducts a pre-audit program of City expenditure documents required to be submitted for approval, such as invoices, payment vouchers, purchase orders and contracts. Documents are selected for audit by category and statistical basis. The Pre-Audit Division verifies that expenditures are authorized and accurate in accordance with the City Charter and other pertinent legal and contractual requirements before any moneys are paid by the City Treasurer. The Pre-Audit Technical Unit, consisting of auditing and engineering staff, inspects and audits capital project design, construction and related expenditures. Other responsibilities of the City Controller include investigation of allegations of fraud, preparation of economic reports, certification of the City’s debt capacity and the capital nature and useful life of the capital projects, and opining to the Pennsylvania Intergovernmental Cooperation Authority (“PICA”) on the reasonableness of the assumptions and estimates in the City’s five-year financial plans.

Under the City Charter, the principal officers of the City's government are the Managing Director of the City (the "Managing Director"), the Director of Finance of the City (the "Director of Finance"), the City Solicitor (the "City Solicitor"), the Director of Commerce (the "Director of Commerce"), and the City Representative (the "City Representative"). Under the City Charter, the Mayor appoints the Managing Director, the Director of Finance, the Director of Commerce, and the City Representative. The Mayor, with the advice and consent of a majority of City Council, also appoints the City Solicitor.

On July 1, 2017, certain amendments to the City Charter become effective that, among other things, create the Department of Planning and Development and the position of Director of Planning and Development to head such department (the "Director of Planning and Development"). Under such amendments, the Mayor appoints the Director of Planning and Development. Pursuant to an executive order, Mayor Kenney expedited the effectiveness of certain aspects of such amendments, including the creation of the Department of Planning and Development. The Mayor has appointed a Director of Planning and Development.

The Managing Director, in coordination with the senior officials of City departments and agencies, is responsible for supervising the operating departments and agencies of the City that render the City's various municipal services. The Director of Commerce is charged with the responsibility of promoting and developing commerce and industry. The City Representative is the Ceremonial Representative of the City and especially of the Mayor. The City Representative is charged with the responsibility of giving wide publicity to any items of interest reflecting the activities of the City and its inhabitants, and for the marketing and promotion of the image of the City. The Director of Planning and Development oversees the Department of Planning and Development, which includes three divisions: (i) the Division of Development Services; (ii) the Division of Planning and Zoning; and (iii) the Division of Housing and Community Development.

The City Solicitor is head of the Law Department and acts as legal advisor to the Mayor, City Council, and all of the agencies of the City government. The City Solicitor is also responsible for: (i) advising on legal matters pertaining to all of the City's contracts and bonds; (ii) assisting City Council, the Mayor, and City agencies in the preparation of ordinances for introduction in City Council; and (iii) conducting litigation involving the City.

The Director of Finance is the chief financial and budget officer of the City and is selected from three names submitted to the Mayor by a Finance Panel, which is established pursuant to the City Charter and is comprised of the President of the Philadelphia Clearing House Association, the Chairman of the Philadelphia Chapter of the Pennsylvania Institute of Certified Public Accountants, and the Dean of the Wharton School of Finance and Commerce of the University of Pennsylvania. Under Mayor Kenney's administration, the Director of Finance is responsible for the financial functions of the City, including: (i) development of the annual operating budget, the capital budget, and capital program; (ii) the City's program for temporary and long-term borrowing; (iii) supervision of the operating budget's execution; (iv) the collection of revenues through the Department of Revenue; (v) the oversight of pension administration as Chairperson of the Board of Pensions and Retirement; and (vi) the supervision of the Office of Property Assessment. The Director of Finance is also responsible for the appointment and supervision of the City Treasurer, whose office manages the City's debt program and serves as the disbursing agent for the distribution of checks and electronic payments from the City Treasury and the management of cash resources.

The following are brief biographies of Mayor Kenney, his Chief of Staff, the Director of Finance, and the City Treasurer.

**James F. Kenney, Mayor.** On November 3, 2015, James F. Kenney was elected as the City's 99th Mayor and was sworn into office on January 4, 2016. Mayor Kenney is a lifelong resident of the City and a graduate of La Salle University. In 1991, Mayor Kenney was elected to serve as a Democratic City Councilman At-Large and was a member of City Council for 23 years.

**Jane Slusser, Chief of Staff.** Ms. Slusser was the campaign manager for Mayor Kenney's mayoral campaign. Previously, Ms. Slusser was Organizing Director at Equality Pennsylvania and led Human Rights Campaign's Americans for Workplace Opportunity statewide campaign in Pennsylvania. In 2008 and 2012, Ms. Slusser worked on President Obama's campaigns in South Philadelphia and Northeastern Pennsylvania. Ms. Slusser is a graduate of Barnard College.

**Rob Dubow, Director of Finance.** Mr. Dubow has served as Director of Finance since being appointed on January 7, 2008. Prior to that appointment, Mr. Dubow was the Executive Director of PICA. He has also served as Executive Deputy Budget Secretary of the Commonwealth, from 2004 to 2005, and as Budget Director for the City, from 2000 to 2004.

**Rasheia Johnson, City Treasurer.** Ms. Johnson was appointed as City Treasurer on January 19, 2016. Ms. Johnson has over 15 years of experience in government and public finance. In public finance, she has worked in the capacities of investment banker, financial advisor, and issuer officer, including positions at Siebert Brandford Shank, Loop Capital Markets, and Public Financial Management, and as Assistant to the Director of Finance for Debt Management for the City.

## **Government Services**

Municipal services provided by the City include: (i) police and fire protection; (ii) health care; (iii) certain welfare programs; (iv) construction and maintenance of local streets, highways, and bridges; (v) trash collection, disposal and recycling; (vi) provision for recreational programs and facilities; (vii) maintenance and operation of the water and wastewater systems (the "Water and Wastewater Systems"); (viii) acquisition and maintenance of City real and personal property, including vehicles; (ix) maintenance of building codes and regulation of licenses and permits; (x) maintenance of records; (xi) collection of taxes and revenues; (xii) purchase of supplies and equipment; (xiii) construction and maintenance of airport facilities (the "Airport System"); and (xiv) maintenance of a prison system. The City maintains enterprise funds – the Water Fund and the Aviation Fund – for each of the Water and Wastewater Systems and the Airport System. For information on the Water and Wastewater Systems, see APPENDIX B – "KEY CITY-RELATED SERVICES AND BUSINESSES – Water and Wastewater." For information on the Airport System, see APPENDIX B – "TRANSPORTATION – Airport System."

The City owns the assets that comprise the Philadelphia Gas Works ("PGW" or the "Gas Works"). PGW serves residential, commercial, and industrial customers in the City. PGW is operated by Philadelphia Facilities Management Corporation ("PFMC"), a non-profit corporation specifically organized to manage and operate PGW for the benefit of the City. For more information on PGW, see "PGW PENSION PLAN," "PGW OTHER POST-EMPLOYMENT BENEFITS," "EXPENDITURES OF THE CITY – PGW Annual Payments," and "LITIGATION – PGW," among others.

## Local Government Agencies

There are a number of governmental authorities and quasi-governmental non-profit corporations that also provide services within the City. Certain of these entities are comprised of governing boards, the members of which are either appointed or nominated, in whole or part, by the Mayor, while others are independent of the Mayor's appointment or recommendation.

### *Mayoral-Appointed or Nominated Agencies*

**Philadelphia Industrial Development Corporation and Philadelphia Authority for Industrial Development.** The Philadelphia Industrial Development Corporation ("PIDC") and the Philadelphia Authority for Industrial Development ("PAID"), along with the City's Commerce Department, coordinate the City's efforts to maintain an attractive business environment, attract new businesses to the City, and retain existing businesses. PIDC manages PAID's activities through a management agreement. Of the 30 members of the board of PIDC, eight are City officers or officials (the Mayor, the Managing Director, the Finance Director, the Commerce Director, the Director of Planning and Development, the City Solicitor, and two members of City Council), nine members are designated by the President of the Chamber of Commerce of Greater Philadelphia (the "Chamber of Commerce"), and the remaining 13 members are jointly designated by the Chamber of Commerce and the Commerce Director. The five-member board of PAID is appointed by the Mayor.

**Philadelphia Municipal Authority.** The Philadelphia Municipal Authority (formerly the Equipment Leasing Authority of Philadelphia) ("PMA") was originally established for the purpose of buying equipment and vehicles to be leased to the City. PMA's powers have been expanded to include any project authorized under applicable law that is specifically authorized by ordinance of City Council. PMA is governed by a five-member board appointed by City Council from nominations made by the Mayor.

**Philadelphia Energy Authority.** The Philadelphia Energy Authority ("PEA") was established by the City and incorporated in 2011 for the purpose of facilitating and developing energy generation projects, facilitating and developing energy efficiency projects, the purchase or facilitation of energy supply and consumer energy education. PEA is authorized to participate in projects on behalf of the City, other government agencies, institutions and businesses. PEA is governed by a five-member board appointed by City Council from four nominations made by the Mayor and one nomination from City Council.

**Philadelphia Redevelopment Authority.** The Philadelphia Redevelopment Authority (formerly known as the Redevelopment Authority of the City of Philadelphia) (the "PRA"), supported by federal funds through the City's Community Development Block Grant Fund and by Commonwealth and local funds, is responsible for the redevelopment of the City's blighted areas. PRA is governed by a five-member board appointed by the Mayor.

**Philadelphia Land Bank.** The Philadelphia Land Bank (the "PLB") was created in December 2013 with a mission to return vacant and tax delinquent property to productive reuse. The PLB is an independent agency formed under the authority of City ordinance and Pennsylvania law. The PLB has an 11-member board of directors, of which five are appointed by the Mayor and five are appointed by City Council. The final board member is appointed by a majority vote of the other board members. The City provides funds for its operations. For more information on the PLB, see APPENDIX B – "ECONOMIC DEVELOPMENT STRATEGIES AND IMPLEMENTATION – City and Quasi-City Economic Development Agencies – Philadelphia Land Bank."

**Philadelphia Housing Authority.** The Philadelphia Housing Authority (the “PHA”) is a public body organized pursuant to the Housing Authorities Law of the Commonwealth and is neither a department nor an agency of the City. PHA is the fourth largest public housing authority in the United States and is responsible for developing and managing low and moderate income rental units and limited amounts of for-sale housing in the City. PHA is also responsible for administering rental subsidies to landlords who rent their units to housing tenants qualified by PHA for such housing assistance payments. PHA is governed by a nine-member Board of Commissioners, all of whom are appointed by the Mayor with the approval of a majority of the members of City Council. The terms of the Commissioners are concurrent with the term of the appointing Mayor. Two of the members of the Board are required to be PHA residents. For more information on PHA, see APPENDIX B – “ECONOMIC DEVELOPMENT STRATEGIES AND IMPLEMENTATION – City and Quasi-City Economic Development Agencies – The Philadelphia Housing Authority.”

**Hospitals and Higher Education Facilities Authority of Philadelphia.** The Hospitals and Higher Education Facilities Authority of Philadelphia (the “Hospitals Authority”) assists non-profit hospitals by financing hospital construction projects. The City does not own or operate any hospitals. The powers of the Hospitals Authority also permit the financing of construction of buildings and facilities for certain colleges and universities and other health care facilities and nursing homes. The Hospitals Authority is governed by a five-member board appointed by City Council from nominations made by the Mayor.

**Southeastern Pennsylvania Transportation Authority.** The Southeastern Pennsylvania Transportation Authority (“SEPTA”), which is supported by transit revenues and federal, Commonwealth, and local funds, is responsible for developing and operating a comprehensive and coordinated public transportation system in the southeastern Pennsylvania region. Two of the 15 members of SEPTA’s board are appointed by the Mayor and confirmed by City Council. For more information on SEPTA, see “EXPENDITURES OF THE CITY – City Payments to SEPTA” and APPENDIX B – “TRANSPORTATION – Southeastern Pennsylvania Transportation Authority (SEPTA).”

**Pennsylvania Convention Center Authority.** The Pennsylvania Convention Center Authority (the “Convention Center Authority”) constructed and maintains, manages, and operates the Pennsylvania Convention Center, which opened on June 25, 1993. The Pennsylvania Convention Center is owned by the Commonwealth and leased to the Convention Center Authority. An expansion of the Pennsylvania Convention Center was completed in March 2011. This expansion enlarged the Pennsylvania Convention Center to approximately 2,300,000 square feet with the largest contiguous exhibit space in the Northeast, the largest convention center ballroom in the East and the ability to host large tradeshows or two major conventions simultaneously.

Of the 15 members of the board of the Convention Center Authority, two are appointed by the Mayor and one by each of the President and Minority Leader of City Council. The Director of Finance is an ex-officio member of the Board with no voting rights. The Commonwealth, the City and the Convention Center Authority have entered into an operating agreement with respect to the operation and financing of the Pennsylvania Convention Center. In January 2014, SMG began managing and operating the Pennsylvania Convention Center, instituting a number of measures intended to reduce and control show costs and improve customer service. For more information on the Convention Center Authority, see “EXPENDITURES OF THE CITY – City Payments to Convention Center Authority.”

**The School District.** The School District was established, pursuant to the First Class City Home Rule Education Act, by the Educational Supplement to the City Charter as a separate and independent home rule school district to provide free public education to the City’s residents. Under the City Charter, the School District is governed by the Board of Education of the School District of Philadelphia (the



“Board of Education”). During a period of distress following a declaration of financial distress by the Secretary of Education of the Commonwealth, all of the powers and duties of the Board of Education granted under the Public School Code of 1949, as amended (the “School Code”), or any other law are suspended and all of such powers and duties are vested in the School Reform Commission (the “School Reform Commission”) created pursuant to the School Code. The School Reform Commission is granted all of the powers and duties of the Board of Education by the School Code, as well as all the powers and duties of a board of control under the School Code. The School Reform Commission is responsible for the operation, management, and educational program of the School District during such period. It is also responsible for financial matters related to the School District. The School District was declared distressed by the Secretary of Education of the Commonwealth pursuant to the School Code, effective December 22, 2001, and such declaration continues to be in effect.

The School Code provides that the members of the Board of Education continue to serve during the time the School District is governed by the School Reform Commission, and that the establishment of the School Reform Commission may not interfere with the regular selection of the members of the Board of Education. The School Code authorizes the School Reform Commission to delegate duties to the Board of Education if it so chooses. There has been no sitting Board of Education for many years. Two of the five members of the School Reform Commission are appointed by the Mayor and three by the Governor of the Commonwealth (the “Governor”), subject to confirmation by the Pennsylvania Senate.

Under the City Charter, the School District’s governing body is required to levy taxes annually, within the limits and upon the subjects authorized by the General Assembly or City Council, in amounts sufficient to provide for operating expenses, debt service charges, and for the costs of any other services incidental to the operation of public schools. The School District has no independent power to authorize school taxes. Certain financial information regarding the School District is included in the City’s CAFR.

Except during a period of distress following a declaration of financial distress by the Secretary of Education of the Commonwealth, as described above, the Board of Education consists of nine members appointed by the Mayor from a list supplied by an Educational Nominating Panel established in accordance with provisions set forth in the City Charter.

The School District is part of the Commonwealth system of public education. In a number of matters, including the incurrence of short-term and long-term debt, the School District is governed by the laws of the Commonwealth. The School District is a separate political subdivision of the Commonwealth, and the City has no property interest in or claim on any revenues or property of the School District. For more information on the School District, see “EXPENDITURES OF THE CITY – City Payments to School District.”

#### *Non-Mayoral-Appointed or Nominated Agencies*

**PICA.** PICA was created by the Pennsylvania Intergovernmental Cooperation Authority Act for Cities of the First Class (the “PICA Act”) in 1991 to provide financial assistance to cities of the first class, and it continues in existence for a period not exceeding one year after all of its liabilities, including the PICA Bonds (as defined herein), have been fully paid and discharged. The City is the only city of the first class in the Commonwealth. The Governor, the President pro tempore of the Pennsylvania Senate, the Minority Leader of the Pennsylvania Senate, the Speaker of the Pennsylvania House of Representatives, and the Minority Leader of the Pennsylvania House of Representatives each appoints one voting member of PICA’s board. The Secretary of the Budget of the Commonwealth and the Director of Finance of the City serve as ex officio members of PICA’s board with no voting rights.

In January 1992, the City and PICA entered into an Intergovernmental Cooperation Agreement (the “PICA Agreement”), pursuant to which PICA agreed to issue bonds from time to time, at the request of the City, for the purpose of funding, among other things, deficits in the General Fund and a debt service reserve. See “DEBT OF THE CITY – PICA Bonds.”

Under the PICA Act and for so long as any PICA Bonds are outstanding, the City is required to submit to PICA: (i) a five-year financial plan on an annual basis; and (ii) quarterly financial reports, each as further described below under “DISCUSSION OF FINANCIAL OPERATIONS – Five-Year Plans of the City” and “– Quarterly Reporting to PICA.” Under the PICA Act, at such time when no PICA Bonds are outstanding, the City will no longer be required to prepare such annual financial plans or quarterly reports. See “DEBT OF THE CITY – PICA Bonds” for the current final stated maturities of outstanding PICA Bonds.

The PICA Act and the PICA Agreement provide PICA with certain financial and oversight functions. PICA has the power to exercise certain advisory and review procedures with respect to the City’s financial affairs, including the power to review and approve the five-year financial plans prepared by the City, and to certify non-compliance by the City with the then-existing five-year plan. PICA is also required to certify non-compliance if, among other things, no approved five-year plan is in place or if the City has failed to file mandatory revisions to an approved five-year plan. Under the PICA Act, any such certification of non-compliance would, upon certification by PICA, require the Secretary of the Budget of the Commonwealth to withhold funds due to the City from the Commonwealth or any of its agencies (including, with certain exceptions, all grants, loans, entitlements, and payments payable to the City by the Commonwealth, including payment of the portion of the PICA Tax, as further described under “DEBT OF THE CITY – PICA Bonds” below, otherwise payable to the City).

**Philadelphia Parking Authority.** The Philadelphia Parking Authority (the “PPA”) is responsible for: (i) the construction and operation of parking facilities in the City and at Philadelphia International Airport (“PHL”); and (ii) enforcement of on-street parking regulations. The members of the PPA’s board are appointed by the Governor, with certain nominations from the General Assembly. For more information on the PPA, see “REVENUES OF THE CITY – Philadelphia Parking Authority Revenues.”

## **DISCUSSION OF FINANCIAL OPERATIONS**

### **Principal Operations**

The major financial operations of the City are conducted through the General Fund. In addition to the General Fund, operations of the City are conducted through two other major governmental funds and 19 non-major governmental funds. The City operates on a July 1 to June 30 fiscal year (“Fiscal Year”) and reports on all the funds of the City, as well as its component units, in the City’s CAFR. PMA’s and PICA’s financial statements are blended with the City’s statements. The financial statements for PGW, PRA, the PPA, the School District, the Community College of Philadelphia, the Community Behavioral Health, Inc., the Delaware River Waterfront Corporation, and PAID are presented discretely.

### **Fund Accounting**

Funds are groupings of activities that enable the City to maintain control over resources that have been segregated for particular purposes or objectives. All of the funds of the City can be divided into three categories: governmental funds, proprietary funds and fiduciary funds.

Governmental Funds. The governmental funds are used to account for the financial activity of the City's basic services, such as: general government; economic and neighborhood development; public health, welfare and safety; cultural and recreational; and streets, highways and sanitation. The funds' financial activities focus on a short-term view of the inflows and outflows of spendable resources, as well as on the balances of spendable resources available at the end of the Fiscal Year. The financial information presented for the governmental funds is useful in evaluating the City's short-term financing requirements.

The City maintains 22 individual governmental funds. The City's CAFRs, including the City's CAFR for Fiscal Year 2016 (the "Fiscal Year 2016 CAFR"), present data separately for the General Fund, Grants Revenue Fund, and Health Choices Behavioral Health Fund, which are considered to be major funds. Data for the remaining 19 funds are combined into a single aggregated presentation.

Proprietary Funds. The proprietary funds are used to account for the financial activity of the City's operations for which customers are charged a user fee; they provide both a long- and short-term view of financial information. The City maintains three enterprise funds that are a type of proprietary fund – airport, water and wastewater operations, and industrial land bank.

Fiduciary Funds. The City is the trustee, or fiduciary, for its employees' pension plans. It is also responsible for PGW's employees' retirement reserve assets. Both of these fiduciary activities are reported in the City's CAFRs, including the Fiscal Year 2016 CAFR, as separate financial statements of fiduciary net assets and changes in fiduciary net assets.

See "CITY FINANCES AND FINANCIAL PROCEDURES" for a further description of these governmental, proprietary, and fiduciary funds.

## **Budget Procedure**

At least 90 days before the end of the Fiscal Year, the operating budget for the next Fiscal Year is prepared by the Mayor and submitted to City Council for adoption. The budget, as adopted, must be balanced and provide for discharging any estimated deficit from the current Fiscal Year and make appropriations for all items to be funded with City revenues. The Mayor's budgetary estimates of revenues for the ensuing Fiscal Year and projection of surplus or deficit for the current Fiscal Year may not be altered by City Council. Not later than the passage of the operating budget ordinance, City Council must enact such revenue measures as will, in the opinion of the Mayor, yield sufficient revenues to balance the budget.

At least 30 days before the end of the Fiscal Year, City Council must adopt by ordinance an operating budget and a capital budget for the ensuing Fiscal Year and a capital program for the six ensuing Fiscal Years. If the Mayor disapproves the bills, he must return them to City Council with the reasons for his disapproval at the first meeting thereof held not less than ten days after he receives such bills. If the Mayor does not return the bills within the time required, they become law without his approval. If City Council passes the bills by a vote of two-thirds of all of its members within seven days after the bills have been returned with the Mayor's disapproval, they become law without his approval. While the City Charter requires that City Council adopt the ordinances for the operating and capital budgets at least 30 days before the end of the Fiscal Year, in practice, such ordinances are often adopted after such deadline, but before the end of such Fiscal Year. For example, the City's Fiscal Year 2017 operating budget ordinance was presented to City Council on March 3, 2016, approved by City Council on June 16, 2016, and signed by the Mayor on June 20, 2016. There is no practical consequence to adopting the budget ordinances after the deadline in the City Charter, but before the end of the Fiscal Year.

The capital program is prepared annually by the City Planning Commission to present the capital expenditures planned for each of the six ensuing Fiscal Years, including the estimated total cost of each project and the sources of funding (local, state, federal, and private) estimated to be required to finance each project. The capital program is reviewed by the Mayor and transmitted to City Council for adoption with his recommendation thereon. The Capital Program ordinance for Fiscal Years 2017-2022 (the “Adopted Capital Program”) was approved by City Council on June 16, 2016, and signed by the Mayor on June 20, 2016.

The capital budget ordinance, authorizing in detail the capital expenditures to be made or incurred in the ensuing Fiscal Year from City Council appropriated funds, is adopted by City Council concurrently with the capital program. The capital budget must be in full conformity with that part of the capital program applicable to the Fiscal Year that it covers.

For information on the City’s Fiscal Year 2017 Adopted Budget (as defined below), see “– Summary of Operations” and “– Current Financial Information” herein. For information on the City’s Proposed Fiscal Year 2018 Budget (as defined below), see “– Current Financial Information – Proposed Fiscal Year 2018 Budget and Proposed Twenty-Sixth Five-Year Plan” herein. For information on the City’s capital program, see “CITY CAPITAL PROGRAM” herein.

### **Budget Stabilization Reserve**

In April 2011, the City adopted an amendment to the City Charter that established the “Budget Stabilization Reserve.” The City Charter provides that the annual operating budget ordinance is required to provide for appropriations to a Budget Stabilization Reserve, to be created and maintained by the Director of Finance as a separate fund, which may not be commingled with any other funds of the City. Appropriations to the Budget Stabilization Reserve are required to be made each Fiscal Year if the projected General Fund balance for the upcoming Fiscal Year equals or exceeds three percent of General Fund appropriations for such Fiscal Year. City Council can appropriate additional amounts to the Budget Stabilization Reserve by ordinance, no later than at the time of passage of the annual operating budget ordinance and only upon recommendation of the Mayor. Total appropriations to the Budget Stabilization Reserve are subject to a limit of five percent of General Fund appropriations. Amounts in the Budget Stabilization Reserve from the prior Fiscal Years, including any investment earnings certified by the Director of Finance, are to remain on deposit therein.

Since the establishment of the Budget Stabilization Reserve, no annual operating budget ordinance has included a provision to fund the Budget Stabilization Reserve because the conditions that would require the funding of such reserve have not been met.

### **Annual Financial Reports**

The City is required by the City Charter to issue, within 120 days after the close of each Fiscal Year, a statement as of the end of the Fiscal Year showing the balances in all funds of the City, the amounts of the City’s known liabilities, and such other information as is necessary to furnish a true picture of the City’s financial condition (the “Annual Financial Reports”). The Annual Financial Reports, which are released on or about October 28 of each year, are intended to meet these requirements and are unaudited. As described above, the audited financial statements of the City are contained in its CAFR, which is published at a later date. The Annual Financial Reports contain financial statements for all City governmental funds and blended component units presented on the modified accrual basis. The proprietary and fiduciary funds are presented on the full accrual basis. They also contain budgetary comparison schedules for those funds that are subject to an annual budget. The financial statements of the City’s discretely presented component units that are available as of the date of the Annual Financial

Reports are also presented. Historically, the results for General Fund fund balance have not materially changed between the Annual Financial Reports and the CAFRs.

The Annual Financial Report for Fiscal Year 2016 was released on October 26, 2016. The Fiscal Year 2016 CAFR was filed with the Municipal Securities Rulemaking Board (“MSRB”) on February 24, 2017. See “CITY FINANCES AND FINANCIAL PROCEDURES – Current City Disclosure Practices.”

### **Five-Year Plans of the City**

The PICA Act requires the City to annually prepare a financial plan that includes projected revenues and expenditures of the principal operating funds of the City for five Fiscal Years consisting of the current Fiscal Year and the subsequent four Fiscal Years. Each five-year plan, which must be approved by PICA, is required to, among other things, eliminate any projected deficits, balance the Fiscal Year budgets and provide procedures to avoid fiscal emergencies. For information on the Modified Twenty-Fifth Five-Year Plan (as defined below), see “– Current Financial Information – Fiscal Year 2017 Adopted Budget and Modified Twenty-Fifth Five-Year Plan.” For information on the Proposed Twenty-Sixth Five-Year Plan (as defined below), see “– Current Financial Information – Proposed Fiscal Year 2018 Budget and Proposed Twenty-Sixth Five-Year Plan.”

### **Quarterly Reporting to PICA**

The PICA Act requires the City to prepare and submit quarterly reports to PICA so that PICA may determine whether the City is in compliance with the then-current five-year plan. Each quarterly report is required to describe actual or current estimates of revenues, expenditures, and cash flows compared to budgeted revenues, expenditures, and cash flows by covered funds for each month in the previous quarter and for the year-to-date period from the beginning of the then-current Fiscal Year of the City to the last day of the fiscal quarter or month, as the case may be, just ended. Each such report is required to explain any variance existing as of such last day.

Under the PICA Agreement, a “variance” is deemed to have occurred as of the end of a reporting period if (i) a net adverse change in the fund balance of a covered fund (i.e., a principal operating fund) of more than 1% of the revenues budgeted for such fund for that Fiscal Year is reasonably projected to occur, such projection to be calculated from the beginning of the Fiscal Year for the entire Fiscal Year, or (ii) the actual net cash flows of the City for a covered fund are reasonably projected to be less than 95% of the net cash flows of the City for such covered fund for that Fiscal Year originally forecast at the time of adoption of the budget, such projection to be calculated from the beginning of the Fiscal Year for the entire Fiscal Year.

PICA may not take any action with respect to the City for variances if the City: (i) provides a written explanation of the variance that PICA deems reasonable; (ii) proposes remedial action that PICA believes will restore overall compliance with the then-current five-year plan; (iii) provides information in the immediately succeeding quarterly financial report demonstrating to the reasonable satisfaction of PICA that the City is taking remedial action and otherwise complying with the then-current five-year plan; and (iv) submits monthly supplemental reports until it regains compliance with the then-current five-year plan.

PICA last declared a variance in February 2009 and that variance was cured. A failure by the City to explain or remedy a variance would, upon certification by PICA, require the Secretary of the Budget of the Commonwealth to withhold funds due to the City from the Commonwealth or any of its

agencies (including, with certain exceptions, all grants, loans, entitlements and payments payable to the City by the Commonwealth, including payment of the portion of the PICA Tax, as further described under “DEBT OF THE CITY – PICA Bonds” below, otherwise payable to the City). The City uses its Quarterly City Manager’s Reports to satisfy the quarterly reporting requirement to PICA. Such reports are released within 45 days following the end of the applicable quarter and the most recent versions of such reports are available on the City’s Investor Website (as defined herein). The most recent Quarterly City Manager’s Report is the report for the period ending December 31, 2016, which was released on February 15, 2017 (the “Second Quarter QCMR”). The next Quarterly City Manager’s Report will be the report for the period ending March 31, 2017, and is expected to be released on or about May 15, 2017.

### **Summary of Operations**

The following table presents the summary of operations for the General Fund for Fiscal Years 2012-2016 and budgeted amounts and current estimates for Fiscal Year 2017. For a description of the legally enacted basis on which the City’s budgetary process accounts for certain transactions, see “CITY FINANCES AND FINANCIAL PROCEDURES – Budgetary Accounting Practices.” “Current Estimate,” as used in the tables and text below, refers (except as otherwise indicated) to the most recently revised Fiscal Year 2017 estimate, which was published by the City on March 2, 2017, as part of the Proposed Fiscal Year 2018 Budget and the Proposed Twenty-Sixth Five-Year Plan, as applicable.

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**Table 1**  
**General Fund**  
**Summary of Operations (Legal Basis)**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Adopted Budget and Current Estimate)**  
**(Amounts in Millions of USD)<sup>(1), (2)</sup>**

	<b>Actual 2012</b>	<b>Actual 2013</b>	<b>Actual 2014</b>	<b>Actual 2015</b>	<b>Actual 2016</b>	<b>Adopted Budget 2017</b>	<b>Current Estimate 2017</b>
<b>Revenues</b>							
Real Property Taxes <sup>(3)</sup>	500.7	540.5	526.4	536.4	571.6	594.9	584.4
Wage and Earnings Tax	1,196.3	1,221.5	1,261.6	1,325.8	1,373.0	1,418.1	1,421.0
Net Profits Tax	15.1	19.2	16.3	21.2	25.4	24.5	29.1
Business Income and Receipts Tax <sup>(4)</sup>	389.4	450.9	461.7	438.2	474.2	441.6	465.1
Sales Tax <sup>(5)</sup>	253.5	257.6	263.1	149.5	169.4	177.5	186.6
Other Taxes <sup>(6)</sup>	215.4	243.7	266.9	305.9	353.0	369.1	354.1
Philadelphia Beverage Tax <sup>(8)</sup>	0.0	0.0	0.0	0.0	0.0	46.2	46.2
Total Taxes	<u>2,570.4</u>	<u>2,733.5</u>	<u>2,795.9</u>	<u>2,777.0</u>	<u>2,966.6</u>	<u>3,071.9</u>	<u>3,086.4</u>
Locally Generated Non-Tax Revenue	256.7	266.2	301.8	294.4	291.0	287.3	290.2
Revenue from Other Governments							
Net PICA Taxes Remitted to the City <sup>(9)</sup>	295.2	314.0	318.7	346.5	383.4	384.7	394.7
Other Revenue from Other Governments <sup>(10)</sup>	<u>420.7</u>	<u>337.5</u>	<u>347.3</u>	<u>302.8</u>	<u>305.6</u>	<u>312.3</u>	<u>316.9</u>
Total Revenue from Other Governments	<u>715.9</u>	<u>651.5</u>	<u>666.0</u>	<u>649.3</u>	<u>689.1</u>	<u>697.0</u>	<u>711.7</u>
Receipts from Other City Funds	<u>48.3</u>	<u>46.8</u>	<u>42.0</u>	<u>39.0</u>	<u>42.3</u>	<u>75.6</u>	<u>75.4</u>
Total Revenue	<u>3,591.4</u>	<u>3,698.0</u>	<u>3,805.6</u>	<u>3,759.8</u>	<u>3,989.0</u>	<u>4,131.8</u>	<u>4,163.7</u>
<b>Obligations/Appropriations</b>							
Personal Services	1,319.0	1,362.4	1,450.6	1,508.7	1,562.6	1,565.8	1,593.0
Purchase of Services	760.8	757.8	787.6	810.6	822.2	896.9	899.6
Materials, Supplies and Equipment	79.9	85.4	88.8	90.6	92.1	109.1	108.3
Employee Benefits	1,066.2	1,119.1	1,194.1	1,099.5	1,181.3 <sup>(13)</sup>	1,229.8 <sup>(14)</sup>	1,258.6 <sup>(15)</sup>
Indemnities, Contributions, and Refunds <sup>(11)</sup>	118.0	138.3	208.6	150.7	192.7	189.4	189.4
City Debt Service <sup>(12)</sup>	111.3	118.9	122.5	132.0	132.1	154.0	154.0
Advances & Miscellaneous Payments / Labor Obligations	0.0	0.0	0.0	0.0	0.0	10.0	0.0
Payments to Other City Funds	<u>29.5</u>	<u>31.5</u>	<u>34.4</u>	<u>39.4</u>	<u>32.8</u>	<u>32.1</u>	<u>32.3</u>
Total Obligations/Appropriations	<u>3,484.9</u>	<u>3,613.3</u>	<u>3,886.6</u>	<u>3,831.5</u>	<u>4,015.8</u>	<u>4,187.1</u>	<u>4,235.1</u>
Operating Surplus (Deficit) for the Year	106.5	84.7	(80.9)	(71.7)	(26.8)	(55.3)	(71.4)
Net Adjustments – Prior Year	40.2	25.4	26.1	21.1	23.6	19.5	23.7
Cumulative Fund Balance Prior Year	<u>0.1</u>	<u>146.8</u>	<u>256.9</u>	<u>202.1</u>	<u>151.5</u>	<u>76.1<sup>(16)</sup></u>	<u>148.3<sup>(16)</sup></u>
Cumulative Adjusted Year End Fund Balance (Deficit)	<u>146.8</u>	<u>256.9</u>	<u>202.1</u>	<u>151.5</u>	<u>148.3</u>	<u>40.3</u>	<u>100.7</u>

<sup>(1)</sup> Sources: For Fiscal Years 2012-2016, the City's CAFRs for such Fiscal Years. For Fiscal Year 2017, the Fiscal Year 2017 Adopted Budget, Proposed Fiscal Year 2018 Budget, and the Proposed Twenty-Sixth Five-Year Plan.

<sup>(2)</sup> Figures may not sum due to rounding.

<sup>(3)</sup> The amounts for Fiscal Years 2012 and 2013 reflect a respective 3.9% and 3.6% increase in the Real Estate Tax rate. The amounts for Fiscal Year 2014 and thereafter reflect a reduction in the Real Estate Tax rate, but also an increase in the assessed value of all taxable real property resulting from a citywide property reassessment. See "REVENUES OF THE CITY – Real Property Taxes Assessment and Collection."

<sup>(4)</sup> As of May 1, 2012, the Business Privilege Tax was renamed the Business Income and Receipts Tax.

<sup>(5)</sup> The amounts for Fiscal Years 2012-2014 reflect a 1% increase in the City Sales Tax effective October 8, 2009, which expired June 30, 2014. Fiscal Year 2015 figures include remaining 1% City Sales Tax, an additional \$15,000,000 for debt service, plus any amounts designated for the Municipal Pension Fund. See "REVENUES OF THE CITY – Sales and Use Tax."

<sup>(6)</sup> Includes Amusement Tax, Real Property Transfer Tax, Parking Lot Tax, Smokeless Tobacco Tax and miscellaneous taxes.

<sup>(7)</sup> Reflecting anticipated improved collections of various existing taxes and decreased delinquencies. See "REVENUES OF THE CITY – Improved Collection Initiative."

<sup>(8)</sup> The Philadelphia Beverage Tax (as defined herein) taxes the distribution of certain beverages at 1.5 cents per ounce and became effective January 1, 2017. See "REVENUES OF THE CITY – Other Taxes" for a discussion of related litigation.

<sup>(9)</sup> For a detailed breakdown of "Net PICA Taxes Remitted to the City," see Table 43. Such figures reflect revenues received by the City from the PICA Tax of 1.50%, the proceeds of which are remitted to PICA for payment of debt service on PICA bonds and PICA expenses. After paying debt service and expenses, net proceeds from the tax are remitted to the City as Revenue from Other Governments. See "DEBT OF THE CITY – PICA Bonds."

<sup>(10)</sup> For a detailed breakdown of "Other Revenue from Other Governments," see Table 12. Fiscal Year 2011 was the last year that the full amount of revenue for DHS (as defined herein) was deposited into the General Fund. The decrease in revenues from Fiscal Year 2012 to Fiscal Year 2013 is largely due to the transfer of the majority of DHS revenue and obligations to the Grants Revenue Fund. "Other Revenue from Other Governments" includes state gaming revenues.

<sup>(11)</sup> Includes contributions to the School District. See also Table 21 and the accompanying text herein.

<sup>(12)</sup> Excludes PICA bonds. See "DEBT OF THE CITY – PICA Bonds."

<sup>(13)</sup> Includes \$9.7 million from City Sales Tax revenues for the Municipal Pension Fund. See "REVENUES OF THE CITY – Sales and Use Tax."

<sup>(14)</sup> Assumes \$13.7 million from City Sales Tax revenues for the Municipal Pension Fund. See "REVENUES OF THE CITY – Sales and Use Tax."

<sup>(15)</sup> Assumes \$18.3 million from City Sales Tax revenues for the Municipal Pension Fund. See "REVENUES OF THE CITY – Sales and Use Tax."

<sup>(16)</sup> In the Fiscal Year 2017 Adopted Budget, the City estimated that Fiscal Year 2016 would end with a General Fund balance of \$76.1 million. In the Fiscal Year 2016 CAFR, the City reported that Fiscal Year 2016 ended with a General Fund balance of \$148.3 million and such number has been included in the current estimate for Fiscal Year 2017.

## Current Financial Information

Table 2 below shows General Fund balances for Fiscal Year 2016 and budgeted amounts and current estimates for Fiscal Year 2017.

**Table 2**  
**General Fund – Fund Balance Summary**  
**(Amounts in Thousands of USD)<sup>(1)</sup>**

	Fiscal Year 2016 Actual <sup>(2)</sup> (June 30, 2016)	Fiscal Year 2017 Adopted Budget <sup>(3)</sup> (June 20, 2016)	Fiscal Year 2017 Current Estimate <sup>(4)</sup> (March 2, 2017)
<b><u>REVENUES</u></b>			
Taxes	\$2,966,648	\$3,071,895 <sup>(5)</sup>	\$3,086,401 <sup>(5)</sup>
Locally Generated Non – Tax Revenues	290,990	287,291	290,249
Revenue from Other Governments	689,076	697,010	711,656
Revenues from Other Funds of City	42,253	75,571	75,426
<b>Total Revenue</b>	<b><u>\$3,988,967</u></b>	<b><u>\$4,131,767</u></b>	<b><u>\$4,163,732</u></b>
<b><u>OBLIGATIONS / APPROPRIATIONS</u></b>			
Personal Services	1,562,628	1,565,831	1,592,990
Personal Services – Employee Benefits	1,181,265 <sup>(6)</sup>	1,229,794 <sup>(7)</sup>	1,258,611 <sup>(8)</sup>
Purchase of Services	822,159	896,926	899,600
Materials, Supplies, and Equipment	92,086	109,128	108,260
Contributions, Indemnities, and Taxes	192,729	189,395	189,445
Debt Service	132,089	153,950	153,950
Payments to Other Funds	32,839	32,064	32,278
Advances & Miscellaneous Payments	0	10,000	0
<b>Total Obligations / Appropriations</b>	<b><u>\$4,015,795</u></b>	<b><u>\$4,187,088</u></b>	<b><u>\$4,235,134</u></b>
<b>Operating Surplus (Deficit)</b>	<b>(26,828)</b>	<b>(55,321)</b>	<b>(71,402)</b>
<b><u>OPERATIONS IN RESPECT TO PRIOR FISCAL YEARS</u></b>			
Net Adjustments – Prior Years	<u>23,612</u>	<u>19,500</u>	<u>23,741</u>
Operating Surplus/(Deficit) & Prior Year Adj.	(3,216)	(35,821)	(47,661)
Prior Year Fund Balance	<u>151,531</u>	<u>76,103<sup>(9)</sup></u>	<u>148,315<sup>(9)</sup></u>
<b>Year End Fund Balance</b>	<b><u>\$148,315</u></b>	<b><u>\$40,282</u></b>	<b><u>\$100,654</u></b>

<sup>(1)</sup> Figures may not sum due to rounding.

<sup>(2)</sup> From the Fiscal Year 2016 CAFR.

<sup>(3)</sup> From the Fiscal Year 2017 Adopted Budget.

<sup>(4)</sup> From the Proposed Fiscal Year 2018 Budget and the Proposed Twenty-Sixth Five-Year Plan.

<sup>(5)</sup> Assumes \$46.2 million in revenue from the Philadelphia Beverage Tax, which taxes the distribution of certain beverages at 1.5 cents per ounce and became effective January 1, 2017. See “REVENUES OF THE CITY – Other Taxes” for a discussion of related litigation.

<sup>(6)</sup> Includes \$9.7 million from City Sales Tax revenues for the Municipal Pension Fund. See “REVENUES OF THE CITY – Sales and Use Tax.”

<sup>(7)</sup> Assumes \$13.7 million from City Sales Tax revenues for the Municipal Pension Fund. See “REVENUES OF THE CITY – Sales and Use Tax.”

<sup>(8)</sup> Assumes \$18.3 million from City Sales Tax revenues for the Municipal Pension Fund. See “REVENUES OF THE CITY – Sales and Use Tax.”

<sup>(9)</sup> In the Fiscal Year 2017 Adopted Budget, the City estimated that Fiscal Year 2016 would end with a General Fund balance of \$76.103 million. In the Fiscal Year 2016 CAFR, the City reported that Fiscal Year 2016 ended with a General Fund balance of \$148.315 million and such number has been included in the current estimate for Fiscal Year 2017.



***The following discussion of the Modified Twenty-Fifth Five-Year Plan, the current estimate for Fiscal Year 2017, the Proposed Fiscal Year 2018 Budget, and the Proposed Twenty-Sixth Five-Year Plan, as applicable, is based, in part, on projections and forward-looking statements related to Fiscal Years 2017 and 2018. No assurance can be given that the applicable budget estimates and forward-looking statements will be realized or that City Council will adopt the Proposed Fiscal Year 2018 Budget in the form proposed by the Mayor. The final five-year plan for Fiscal Years 2018-2022 will depend, in part, on the final adopted Fiscal Year 2018 operating budget. The accuracy of such budget estimates and forward-looking statements cannot be verified until after the close of the applicable Fiscal Year and the completion of the related audit.***

Fiscal Year 2017 Adopted Budget and Modified Twenty-Fifth Five-Year Plan. On March 3, 2016, Mayor Kenney submitted his proposed Fiscal Year 2017 budget to City Council, along with the proposed five-year plan for Fiscal Years 2017-2021. On June 16, 2016, City Council approved the Fiscal Year 2017 operating budget ordinance, which was signed by the Mayor on June 20, 2016 (the “Fiscal Year 2017 Adopted Budget”).

On August 8, 2016, the City submitted to PICA its modified FY 2017-2021 Five Year Financial Plan Per Council Approved Budget (the “Modified Twenty-Fifth Five-Year Plan”). PICA approved the Modified Twenty-Fifth Five-Year Plan on August 31, 2016.

In the Modified Twenty-Fifth Five-Year Plan, the City set forth certain priorities, including: (i) finding efficiencies to stretch taxpayer funds; (ii) increasing collection and revenue efforts; (iii) making investments in children and families; (iv) making investments in the City’s workforce; (v) improving public safety; (vi) improving economic opportunities; and (vii) improving the City’s neighborhoods.

Labor Agreements. The Modified Twenty-Fifth Five-Year Plan provides \$30 million for increased labor obligations in Fiscal Year 2017 and \$328.4 million through Fiscal Year 2021. In July 2016, a collective bargaining agreement was reached with American Federation of State, County and Municipal Employees District Council 33 (“AFSCME DC 33”), which provides for pension reforms coupled with salary increases, lump sum payments for health care, and a one-time bonus. This collective bargaining agreement was ratified on August 19, 2016. The costs of such agreement, along with the cost of the wage reopener with International Association of Fire Fighters (“IAFF”) Local 22, the City’s firefighter union, which resulted in a 3.25% wage increase in Fiscal Year 2017, are included within the \$328.4 million set-aside. The \$328.4 million included in the Modified Twenty-Fifth Five-Year Plan also provides additional resources for compensation changes for other unionized and non-unionized employees.

Fiscal Year 2017 Current Estimate. The current estimate for Fiscal Year 2017 is derived from information included in the Proposed Fiscal Year 2018 Budget and the Proposed Twenty-Sixth Five-Year Plan, as applicable.

In the Proposed Twenty-Sixth Five-Year Plan, the City estimates that it will end Fiscal Year 2017 with a General Fund balance (on the legally enacted basis) of approximately \$100.7 million. Although such estimated General Fund balance is higher than previously anticipated, it is still far below levels recommended by government finance experts.

Proposed Fiscal Year 2018 Budget and Proposed Twenty-Sixth Five-Year Plan. The City’s proposed Fiscal Year 2018 operating budget (the “Proposed Fiscal Year 2018 Budget”) was submitted by the Mayor to City Council on March 2, 2017, along with the City’s proposed five-year plan for Fiscal Years 2018-2022 (the “Proposed Twenty-Sixth Five-Year Plan”). There can be no assurance that the

Proposed Fiscal Year 2018 Budget will be adopted as submitted to City Council or that the Proposed Twenty-Sixth Five-Year Plan will be submitted to PICA without modification.

In the Proposed Twenty-Sixth Five-Year Plan, the City set forth certain priorities, including: (i) protecting the City's most vulnerable populations; (ii) increasing public safety in all neighborhoods; (iii) ensuring City government runs efficiently and effectively; (iv) improving economic opportunities for City residents; (v) making progress on initiatives funded by the Philadelphia Beverage Tax; and (vi) improving the fiscal health of the City with a focus on program-based budgeting and General Fund balance.

For Fiscal Years 2018-2022, the Proposed Twenty-Sixth Five-Year Plan projects that the City will end such Fiscal Years with General Fund balances (on the legally enacted basis) of \$87.5 million (Fiscal Year 2018), \$94.3 million (Fiscal Year 2019), \$68.7 million (Fiscal Year 2020), \$69.5 million (Fiscal Year 2021), and \$101.8 million (Fiscal Year 2022). The City continues to face uncertainty regarding the pace of economic growth. The estimated General Fund balances in Fiscal Years 2018-2022, which are low, could lead to financial risk.

On March 31, 2017, OPA (as defined herein) completed an assessment of non-residential property that showed an increase in assessed values for tax year 2018. The increased assessments are projected by the City, based on conservative assumptions of a 20% reduction of assessed values resulting from appeals and a collection rate of approximately 93%, to generate additional tax revenue of approximately \$119.5 million in Fiscal Year 2018. Of such amount, the City is expected to receive approximately \$54 million. For more information on the assessment and collection of Real Property Taxes and OPA, see "REVENUES OF THE CITY – Real Property Taxes Assessment and Collection."

*Labor Agreements.* The labor agreements for the Fraternal Order of Police ("FOP") Lodge No. 5, IAFF Local 22, and American Federation of State, County and Municipal Employees District Council 47 ("AFSCME DC 47") expire on June 30, 2017. The Proposed Twenty-Sixth Five-Year Plan includes an aggregate of \$200 million for the potential costs of these labor agreements for Fiscal Years 2018-2022.

For more information on the City's annual budget process under the City Charter and the five-year financial plans and quarterly reporting required under the PICA Act, see "– Budget Procedure," "– Five-Year Plans of the City," and "– Quarterly Reporting to PICA."

## **CITY FINANCES AND FINANCIAL PROCEDURES**

Except as otherwise noted, the financial statements, tables, statistics, and other information shown below have been prepared by the Office of the Director of Finance and can be reconciled to the financial statements in the Fiscal Year 2016 CAFR and notes therein. The Fiscal Year 2016 CAFR was prepared by the Office of the Director of Finance in conformance with guidelines adopted by the Governmental Accounting Standards Board and the American Institute of Certified Public Accountants' audit guide, Audits of State and Local Government Units.

### **General**

Governmental funds account for their activities using the current financial resources measurement focus and the modified accrual basis of accounting. Revenues are recognized as soon as they are both measurable and available. Revenues are considered to be available when they are collectible within the current period or soon enough thereafter to pay liabilities of the current period. For this purpose, the City considers revenues to be available if they are collected within 60 days of the end of the current fiscal period. Expenditures are generally recorded when a liability is incurred, as in the case of full accrual accounting. Debt service expenditures, as well as expenditures related to compensated absences and

claims and judgments, are recorded only when payment is due; however, those expenditures may be accrued if they are to be liquidated with available resources.

Imposed non-exchange revenues, such as real estate taxes, are recognized when the enforceable legal claim arises and the resources are available. Derived tax revenues, such as wage, Business Income and Receipts Tax (“BIRT”), net profits and earnings taxes, are recognized when the underlying exchange transaction has occurred and the resources are available. Grant revenues are recognized when all the applicable eligibility requirements have been met and the resources are available. All other revenue items are considered to be measurable and available only when cash is received by the City.

Revenue that is considered to be program revenue includes: (i) charges to customers or applicants for goods received, services rendered or privileges provided; (ii) operating grants and contributions; and (iii) capital grants and contributions. Internally dedicated resources are reported as general revenues rather than as program specific revenues; therefore, all taxes are considered general revenues.

The City’s financial statements reflect the following three funds as major Governmental Funds:

- The General Fund is the City’s primary operating fund. It accounts for all financial resources of the general government, except those required to be accounted for in other funds.
- The Health Choices Behavioral Health Fund accounts for resources received from the Commonwealth. These resources are restricted to providing managed behavioral health care to residents of the City.
- The Grants Revenue Fund accounts for the resources received from various federal, Commonwealth, and private grantor agencies. The resources are restricted to accomplishing the various objectives of the grantor agencies.

In Fiscal Year 2012, the City transferred the majority of the Department of Human Services (“DHS”) revenues and obligations to the Grants Revenue Fund.

The City also reports on permanent funds, which are used to account for resources legally held in trust for use by the park and library systems of the City. There are legal restrictions on the resources of the permanent funds that require the principal to remain intact, while only the earnings may be used for the programs.

The City reports on the following fiduciary funds:

- The Municipal Pension Fund accumulates resources to provide pension benefit payments to qualified employees of the City and certain other quasi-governmental organizations.
- The Philadelphia Gas Works Retirement Reserve Fund accounts for contributions made by PGW to provide pension benefit payments to its qualified employees under its pension plan. For more information on the PGW Pension Plan (as defined herein), see “PGW PENSION PLAN.”
- The Escrow Fund accounts for funds held in escrow for various purposes.
- The Employees Health & Welfare Fund accounts for funds deducted from employees’ salaries for payment to various organizations.

- The Departmental Custodial Accounts account for funds held in custody by various departments of the City.

The City reports on the following major proprietary funds:

- The Water Fund accounts for the activities related to the operation of the Water and Wastewater Systems.
- The Aviation Fund accounts for the activities of the Airport System.

Proprietary funds distinguish operating revenues and expenses from non-operating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund's ongoing operations. The principal operating revenues of the Water Fund are charges for water and sewer service. The principal operating revenues of the Aviation Fund are charges for the use of the City's airports. Operating expenses for enterprise funds include the cost of sales and services, administrative expenses, and depreciation on capital assets. All revenues and expenses not meeting this definition are reported as non-operating revenues and expenses.

### **Current City Disclosure Practices**

It is the City's practice to file its CAFR, which contains the audited combined financial statements of the City, in addition to certain other information, such as the City's bond ratings and information about upcoming debt issuances, with the MSRB as soon as practicable after delivery of such report. For bonds issued in calendar year 2015 and after, the annual filing deadline is February 28; for bonds issued prior to calendar year 2015, the annual filing deadline is 240 days after the end of the respective Fiscal Year, being February 25. The Fiscal Year 2016 CAFR was filed with the MSRB on February 24, 2017, through the MSRB's Electronic Municipal Market Access ("EMMA") system. The Fiscal Year 2016 CAFR is attached hereto as APPENDIX C.

A wide variety of information concerning the City is available from publications and websites of the City and others, including the City's investor information website at <http://www.phila.gov/investor> (the "City's Investor Website"). Any such information that is inconsistent with the information set forth in this Official Statement should be disregarded. No such information is a part of or incorporated into this Official Statement.

### **Independent Audit and Opinion of the City Controller**

The City Controller has examined and expressed opinions on the basic financial statements of the City contained in the Fiscal Year 2016 CAFR. The City Controller has not participated in the preparation of this Official Statement nor in the preparation of the budget estimates and projections and cash flow statements and forecasts set forth in various tables contained in this Official Statement. Consequently, the City Controller expresses no opinion with respect to any of the data contained in this Official Statement other than what is contained in the basic financial statements of the City in the Fiscal Year 2016 CAFR.

### **Budgetary Accounting Practices**

The City's budgetary process accounts for certain transactions on a basis other than generally accepted accounting principles ("GAAP"). In accordance with the City Charter, the City has formally established budgetary accounting control for its operating and capital improvement funds.

The operating funds of the City, consisting of the General Fund, nine Special Revenue Funds (County Liquid Fuels Tax, Special Gasoline Tax, Health Choices Behavioral Health, Hotel Room Rental Tax, Grants Revenue, Community Development, Car Rental Tax, Acute Care Hospital Assessment and Housing Trust Funds) and two Enterprise Funds (Water and Aviation Funds), are subject to annual operating budgets adopted by City Council. These budgets appropriate funds for all City departments, boards and commissions by major class of expenditure within each department. Major classes are defined as: (i) personal services; (ii) purchase of services; (iii) materials and supplies; (iv) equipment; (v) contributions, indemnities, and taxes; (vi) debt service; (vii) payments to other funds; and (viii) advances and other miscellaneous payments. The appropriation amounts for each fund are supported by revenue estimates and take into account the elimination of accumulated deficits and the re-appropriation of accumulated surpluses to the extent necessary. All transfers between major classes (except for materials and supplies and equipment, which are appropriated together) must have City Council approval. Appropriations that are not expended or encumbered at year-end are lapsed.

The City's capital budget is adopted annually by City Council. The capital budget is appropriated by project for each department. Requests to transfer appropriations between projects must be approved by City Council. Any appropriations that are not obligated at year-end are either lapsed or carried forward to the next Fiscal Year.

Schedules prepared on the legally enacted basis differ from the GAAP basis in that both expenditures and encumbrances are applied against the current budget, adjustments affecting activity budgeted in prior years are accounted for through fund balance or as reduction of expenditures and certain interfund transfers and reimbursements are budgeted as revenues and expenditures. The primary difference between the GAAP and legal (budgetary) fund balance is due to the timing of recognizing the BIRT. The legal basis recognizes BIRT revenues in the Fiscal Year they are collected. The GAAP basis requires the City to recognize the BIRT revenues (which are primarily paid in April) for the calendar year in which the BIRT taxes are due, requiring the City to defer a portion of the April payment into the next Fiscal Year. For more information on BIRT, see "REVENUES OF THE CITY – Business Income and Receipts Tax."

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## REVENUES OF THE CITY

### General

Prior to 1939, the City relied heavily on the real estate tax as the mainstay of its revenue system. In 1932, the General Assembly adopted an act (commonly referred to as the Sterling Act) under which the City is permitted to levy any tax that was not specifically pre-empted by the Commonwealth. Acting under the Sterling Act and other Pennsylvania legislation, the City has taken various steps over the years to reduce its reliance on real property taxes as a source of income, including: (i) enacting the wage, earnings, and net profits tax in 1939; (ii) introducing a sewer service charge to make the sewage treatment system self-sustaining after 1945; (iii) requiring under the City Charter that the water, sewer, and other utility systems be fully self-sustaining; (iv) enacting the Mercantile License Tax (a gross receipts tax on business done within the City) in 1952, which was replaced as of the commencement of Fiscal Year 1985 by the Business Privilege Tax (renamed the Business Income and Receipts Tax in May 2012), and (v) enacting the City Sales Tax (as defined herein) for City general revenue purposes effective beginning in Fiscal Year 1992.

### Major Revenue Sources

The City derives its revenues primarily from various taxes, non-tax revenues, and receipts from other governments. See Table 3 for General Fund tax revenues for Fiscal Years 2012-2016, as well as the budgeted amounts and current estimates for Fiscal Year 2017. The following discussion of the City's revenues does not take into account revenues in the non-debt related funds. The tax rates for Fiscal Years 2012 through 2016 are contained in the Fiscal Year 2016 CAFR.

Table 3 provides a detailed breakdown of the "Total Taxes" line from Table 1 above. Table 3 does not include "Revenues from Other Governments," which consists of "Net PICA Taxes Remitted to the City" and "Other Revenue from Other Governments." "Net PICA Taxes Remitted to the City" is set forth in Table 1 and a detailed breakdown of such revenues is shown in Table 43. "Other Revenue from Other Governments" is set forth in Table 1 and a detailed breakdown of such revenues is shown in Table 12.

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**Table 3**  
**General Fund Tax Revenues**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Adopted Budget and Current Estimate)**  
**(Amounts in Millions of USD) <sup>(1), (2), (3)</sup>**

	Actual 2012	Actual 2013	Actual 2014	Actual 2015	Actual 2016	Adopted Budget 2017	Current Estimate 2017
<u>Real Property Taxes<sup>(4)</sup></u>							
Current	\$464.4	\$504.2	\$483.9	\$493.1	\$521.2	\$537.9	\$533.1
Prior	<u>36.3</u>	<u>36.3</u>	<u>42.5</u>	<u>43.4</u>	<u>50.4</u>	<u>57.0</u>	<u>51.3</u>
Total	<u>\$500.7</u>	<u>\$540.5<sup>(4)</sup></u>	<u>\$526.4</u>	<u>\$536.4</u>	<u>\$571.6</u>	<u>\$594.9</u>	<u>\$584.4</u>
<u>Wage and Earnings Tax<sup>(5)</sup></u>							
Current	\$1,192.2	\$1,219.5	\$1,255.9	\$1,318.8	\$1,364.6	\$1,411.1	\$1,413.9
Prior	<u>4.1</u>	<u>2.0</u>	<u>5.7</u>	<u>7.1</u>	<u>8.4</u>	<u>7.0</u>	<u>7.0</u>
Total	<u>\$1,196.3</u>	<u>\$1,221.5</u>	<u>\$1,261.6</u>	<u>\$1,325.8</u>	<u>\$1,373.0</u>	<u>\$1,418.1</u>	<u>\$1,421.0</u>
<u>Business Taxes</u>							
Business Income and Receipts Tax <sup>(6)</sup>							
Current & Prior	<u>\$389.4</u>	<u>\$450.9</u>	<u>\$461.7</u>	<u>\$438.2</u>	<u>\$474.2</u>	<u>\$441.6</u>	<u>\$465.1</u>
<u>Net Profits Tax</u>							
Current	\$12.2	\$17.2	\$13.2	\$14.7	\$23.3	\$21.4	\$26.0
Prior	<u>2.9</u>	<u>1.9</u>	<u>3.1</u>	<u>6.5</u>	<u>2.1</u>	<u>3.1</u>	<u>3.1</u>
Subtotal Net Profits Tax	<u>15.1</u>	<u>19.2</u>	<u>16.3</u>	<u>21.2</u>	<u>25.4</u>	<u>24.5</u>	<u>29.1</u>
Total Business and Net Profits Taxes	<u>\$404.5</u>	<u>\$470.1</u>	<u>\$478.0</u>	<u>\$459.4</u>	<u>\$499.6</u>	<u>\$466.1</u>	<u>\$494.2</u>
<u>Other Taxes</u>							
Sales and Use Tax <sup>(7)</sup>	\$253.5	\$257.6	\$263.1	\$149.5	\$169.4	\$177.5	\$186.6
Amusement Tax	21.9	19.1	20.0	19.0	19.4	20.5	21.2
Real Property Transfer Tax	119.4	148.0	168.1	203.4	237.3	249.6	232.9
Parking Taxes	70.9	73.3	75.1	79.7	92.7	95.1	96.7
Other Taxes	<u>3.2</u>	<u>3.4</u>	<u>3.7</u>	<u>3.8</u>	<u>3.6</u>	<u>3.9</u>	<u>3.4</u>
Subtotal Other Taxes	<u>\$468.9</u>	<u>\$501.3</u>	<u>\$530.0</u>	<u>\$455.4</u>	<u>\$522.4</u>	<u>\$546.6</u>	<u>\$540.8</u>
Philadelphia Beverage Tax <sup>(8)</sup>	0.0	0.0	0.0	0.0	0.0	46.2	46.2
<b>TOTAL TAXES</b>	<u><b>\$2,570.4</b></u>	<u><b>\$2,733.5</b></u>	<u><b>\$2,795.9</b></u>	<u><b>\$2,777.0</b></u>	<u><b>\$2,966.6</b></u>	<u><b>\$3,071.9</b></u>	<u><b>\$3,086.4</b></u>

<sup>(1)</sup> Sources: For Fiscal Years 2012-2016, the City's CAFRs for such Fiscal Years. For Fiscal Year 2017, the Fiscal Year 2017 Adopted Budget, the Proposed Fiscal Year 2018 Budget, and the Proposed Twenty-Sixth Five-Year Plan.

<sup>(2)</sup> See Table 7 in the Fiscal Year 2016 CAFR for tax rates.

<sup>(3)</sup> Figures may not sum due to rounding.

<sup>(4)</sup> The amounts for Fiscal Years 2012 and 2013 reflect a respective 3.9% and 3.6% increase in the Real Estate Tax rate. The amounts for Fiscal Year 2014 and thereafter reflect a reduction in the Real Estate Tax rate, but also an increase in the assessed value of all taxable real property resulting from a citywide property reassessment. See "– Real Property Taxes Assessment and Collection."

<sup>(5)</sup> Does not include the PICA Tax of 1.50%, the proceeds of which are remitted to PICA for payment of debt service on PICA Bonds and PICA expenses. After paying debt service and expenses, net proceeds from the tax are remitted to the City as Revenue from Other Governments. See "DEBT OF THE CITY – PICA Bonds" for a description of the PICA Tax.

<sup>(6)</sup> As of May 1, 2012, the Business Privilege Tax was renamed the Business Income and Receipts Tax.

<sup>(7)</sup> The amounts for Fiscal Years 2012-2014 reflect a 1% increase in the City Sales Tax effective October 8, 2009, which expired June 30, 2014. For Fiscal Years 2015-2017, figures include the remaining 1% City Sales Tax, an additional \$15,000,000 for debt service, plus any amounts designated for the Municipal Pension Fund. See "– Sales and Use Tax."

<sup>(8)</sup> The Philadelphia Beverage Tax taxes the distribution of certain beverages at 1.5 cents per ounce and became effective January 1, 2017. See "– Other Taxes" for a discussion of related litigation.

## Wage, Earnings, and Net Profits Taxes

The largest tax revenue source (comprising more than 45% of all tax revenues in Fiscal Year 2016) is the wage, earnings and net profits tax. The wage and earnings tax is collected from all employees working within City limits, and all City residents regardless of work location. The net profits tax is collected on the net profits from the operation of a trade, business, profession, enterprise or other activity conducted by individuals, partnerships, associations or estates and trusts within the City limits. The following table sets forth the resident and non-resident wage, earnings and net profits tax rates for Fiscal Years 2012-2017, the annual wage, earnings and net profits tax receipts in Fiscal Years 2012-2016 and the budgeted amount and current estimate of such receipts for Fiscal Year 2017.

**Table 4**  
**Summary of Wage, Earnings and Net Profits Tax Rates and Receipts**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Adopted Budget and Current Estimate)<sup>(1)</sup>**

Fiscal Year	Resident Wage, Earnings and Net Profits Tax Rates <sup>(2)</sup>	Non-Resident Wage, Earnings and Net Profits Tax Rates	Annual Wage, Earnings and Net Profits Tax Receipts (including PICA Tax) (Amounts in Millions of USD) <sup>(3)</sup>
2012	3.9280%	3.4985%	\$1,568.9 (Actual)
2013	3.9280%	3.4985%	\$1,617.2 (Actual)
2014	3.9240%	3.4950%	\$1,662.3 (Actual)
2015	3.9200%	3.4915%	\$1,755.5 (Actual)
2016	3.9102%	3.4828%	\$1,842.9 (Actual)
2017	3.9004%	3.4741%	\$1,892.6 (Adopted Budget) \$1,910.1 (Current Estimate)

<sup>(1)</sup> See Table 7 in the Fiscal Year 2016 CAFR for tax rates.

<sup>(2)</sup> Includes PICA Tax. See “DEBT OF THE CITY – PICA Bonds” for a description of the PICA Tax.

<sup>(3)</sup> Sources: For Fiscal Years 2012-2016, the City’s CAFRs for such Fiscal Years. For Fiscal Year 2017, the Fiscal Year 2017 Adopted Budget and the Proposed Fiscal Year 2018 Budget.

Commonwealth funding from gaming revenues is mandated by statute to be used to reduce the resident and nonresident wage tax rate. Gaming revenues have averaged approximately \$86.3 million in Fiscal Years 2012-2016. For Fiscal Year 2017, the budgeted amount and current estimate of gaming revenues is \$86.3 million. The wage tax rates in such Fiscal Years reflect a rate reduction due to these revenues.

See “– Proposed Tax Rate Changes” for information regarding proposed wage and earnings tax rate reductions commencing in Fiscal Year 2018 under the Proposed Twenty-Sixth Five-Year Plan.

In a recent decision by the Supreme Court of the United States, a state’s failure to provide certain credits against its personal income tax was held to have violated the dormant Commerce Clause of the United States Constitution. Such personal income tax was applied to income earned outside of the state of residency, and residents were not given a credit for income taxes paid to the state where such income was earned, resulting, in the circumstances presented, in taxing income earned interstate at a rate higher than income earned intrastate. The City is considering what impact this decision may have on its wage, earnings, and net profits tax revenues, but at this point in time no determinations have been made. The City does not provide a credit to resident taxpayers against their respective wage, earnings, and net profits tax liabilities for similar taxes paid to another jurisdiction.

## Business Income and Receipts Tax

In 1984, the Commonwealth passed legislation known as The First Class City Business Tax Reform Act of 1984, authorizing City Council to impose a business tax measured by gross receipts, net



income or the combination of the two. The same year, City Council by ordinance repealed the Mercantile License Tax and the General Business Tax and imposed the Business Privilege Tax. As of May 1, 2012, the Business Privilege Tax was renamed the Business Income and Receipts Tax (the “BIRT”). Rental activities are usually considered to be business activities. Every estate or trust (whether the fiduciary is an individual or a corporation) must file a BIRT return if the estate or trust is engaged in any business or activity for profit within the City.

The BIRT allows for particular allocations and tax computations for regulated industries, public utilities, manufacturers, wholesalers and retailers. There are also credit programs where meeting the requirement of the program allows for a credit against the BIRT. All persons subject to both the BIRT and the net profits tax are entitled to apply a credit of 60% of the net income portion of their BIRT liability against what is due on the net profits tax to the maximum of the net profits tax liability for that tax year.

In November 2011, legislation was enacted to halt a previously enacted program of reducing the gross receipts portion of the BIRT and to commence reductions in the net income portion of the BIRT to take effect in tax year 2014 with changes phasing in through tax year 2023. The following table reflects such changes and provides a summary of BIRT rates for tax years 2012-2023. Future scheduled reductions in the net income portion of the BIRT remain subject to amendment by action of City Council and the Mayor.

**Table 5**  
**Summary of Business Income and Receipts Tax Rates**

<u>Tax Year</u>	<u>Gross Receipts</u>	<u>Net Income</u>
2012	1.415 mills	6.45%
2013	1.415 mills	6.45%
2014	1.415 mills	6.43%
2015	1.415 mills	6.41%
2016	1.415 mills	6.39%
2017	1.415 mills	6.35%
2018	1.415 mills	6.30%
2019	1.415 mills	6.25%
2020	1.415 mills	6.20%
2021	1.415 mills	6.15%
2022	1.415 mills	6.10%
2023	1.415 mills	6.00%

In addition, the 2011 legislation incorporated several changes intended to help small and medium sized businesses and lower costs associated with starting a new business in order to stimulate new business formation and increase employment in the City, including the following: (i) the Commercial Activity License fee for all businesses was eliminated in 2014; (ii) business taxes for the first two years of operations for all new businesses with at least three employees in their first year and six employees in their second year were eliminated beginning in 2012; and (iii) across the board exclusions on the gross receipts portion of the BIRT were provided for all businesses phased in over a three-year period beginning in 2014 and eventually excluding the first \$100,000 of gross receipts, along with proportional reductions in the net income portion of the BIRT. The legislation also provides for implementation of single sales factor apportionment in 2015, which enables businesses to pay BIRT based solely on sales in the City, rather than on property or payroll.

## **Real Property Taxes Assessment and Collection**

A tax is levied on the assessed value of all taxable residential and commercial real property located within the City's boundaries (the "Real Estate Tax") as assessed by the Office of Property Assessment ("OPA") and collected by the Department of Revenue ("Revenue"). Real Estate Taxes are allocated to the City and the School District with the millage split between the two taxes changing over the years.

Beginning in 2010, the City significantly changed the system used for assessing Real Estate Tax in Philadelphia. On May 18, 2010, Philadelphia voters approved an amendment to the City Charter that split the assessment and appeals functions, moving assessment functions into City government into a new agency, OPA, and creating an independent board of appeals, replacing the Board of Revision of Taxes ("BRT"), which previously combined both functions. OPA formally took over responsibility for assessments in October 2010. However, the Pennsylvania Supreme Court ruled on September 20, 2010, that without an amendment to state law, the City did not have the authority to replace the BRT in its capacity as an existing appeals board. Therefore, the BRT remains in place as the property assessment appeals board; but the separation of the appeals function from the assessment function, which removed an inherent conflict and was a key goal of the legislation, remains in place. The BRT is an independent, seven-member board appointed by the Board of Judges of the Philadelphia Common Pleas Court.

For tax year 2014, under the Actual Value Initiative ("AVI"), all 579,000 properties in Philadelphia were reassessed at their actual market value by OPA, replacing outdated values and inequities within the system. As the new total assessed value of all properties more accurately reflected the market in Philadelphia, the total assessment grew substantially. As a result, the Mayor and City Council significantly reduced the tax rate to ensure that the reassessment resulted in the collection of approximately the same amount of current year revenue as the prior year (the rates are shown in Table 6 below). Moreover, in order to make the tax bills more understandable, AVI removed the complicated fractional system. Prior to AVI, tax bills were calculated by multiplying the certified market value by an established predetermined ratio ("EPR") multiplied by the tax rate. The last applicable EPR was 32%.

The changes in the system had implications for most property owners in the City. Under the old assessment system, some properties were valued closer to their actual value than other properties. Properties that had been valued closer to their actual value saw relatively smaller increases in assessments and when those assessment changes were coupled with the much lower Real Estate Tax rate, they produced tax decreases. On the other hand, properties that were relatively undervalued saw tax increases, a small number of which were substantial.

In order to mitigate the hardship that could be created by those large increases, the ordinance imposing the new Real Estate Tax rates included a homestead exemption of \$30,000 for all primary residential owner-occupants. Alternative programs are also available to reduce Real Estate Tax bills for homeowners, including the Longtime Owner-Occupant Program (LOOP) to provide relief to longtime owners with large increases and the ten-year tax abatement. In addition to the homestead exemption, the City has also instituted several other property tax relief programs for taxpayers.

The Real Estate Tax rates for tax years 2012-2017 are set forth in Table 6 below:

**Table 6**  
**Real Estate Tax Rates and Allocations**

Tax Year	City	School District	Total
2012	4.1230%	5.3090%	9.4320%
2013	4.4620%	5.3090%	9.7710%
2014 <sup>(1)</sup>	0.6018%	0.7382%	1.3400%
2015 <sup>(1)</sup>	0.6018%	0.7382%	1.3400%
2016 <sup>(1)</sup>	0.6317%	0.7681%	1.3998%
2017 <sup>(1)</sup>	0.6317%	0.7681%	1.3998%

<sup>(1)</sup> The reduction of the Real Estate Tax rates from tax year 2013 to tax year 2014 and succeeding tax years reflects the City's Actual Value Initiative.

For Fiscal Year 2015, the actual amount of Real Estate Tax revenue for the City was \$493.1 million (excluding delinquent collections), greater than the Fiscal Year 2014 actual amount of \$483.9 million. For Fiscal Year 2016, the actual amount of Real Estate Tax revenue for the City was \$521.2 million (excluding delinquent collections). For Fiscal Year 2017, the current estimate of Real Estate Tax revenue for the City is \$533.1 million (excluding delinquent collections). See Table 3 above. Real Estate Tax bills are sent in December for the following year and payments are due March 31. A discount of 1% is available for taxpayers who pay their Real Estate Taxes on or before the last day of February.

Table 7 shows the assessed values of properties used for tax year 2016 and 2017 Real Estate Taxes (both of which reflect the effect of AVI). Under AVI, the OPA certifies the market values by March 31 of the prior year (that is, for tax year 2016, the OPA certified the market values on March 31, 2015). Taxpayers base their appeals on the certified market values, and therefore, the assessed values are adjusted as the appeals are finalized. For budgetary purposes, the OPA provides an updated table to the Office of the Director of Finance in December, from which tax rates are determined.

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**Table 7**  
**Certified Property Values for Tax Years 2016 and 2017**

Tax Year 2016*					
<u>Category</u>	<u>Tax Status</u>	<u>Assessed Value</u>	<u>Taxable Assessed Value</u>	<u>Exempt Assessed Value</u>	<u>Number of Parcels</u>
Residential	Fully Taxable	\$26,264,061,193	\$26,264,061,193	\$0	227,060
Residential	Abatement	8,297,419,600	2,773,190,544	5,524,229,056	31,295
Residential	Exemption	<u>32,665,233,808</u>	<u>25,863,433,627</u>	<u>6,801,800,181</u>	<u>214,564</u>
<b>Total</b>		<b><u>\$67,226,714,601</u></b>	<b><u>\$54,900,685,364</u></b>	<b><u>\$12,326,029,237</u></b>	<b><u>472,919</u></b>
Hotels and Apartments	Fully Taxable	\$11,097,523,000	\$11,097,523,000	\$0	21,864
Hotels and Apartments	Abatement	2,519,189,900	803,639,111	1,715,550,789	1,326
Hotels and Apartments	Exemption	<u>3,118,605,200</u>	<u>913,756,282</u>	<u>2,204,848,918</u>	<u>4,017</u>
<b>Total</b>		<b><u>\$16,735,318,100</u></b>	<b><u>\$12,814,918,393</u></b>	<b><u>\$3,920,399,707</u></b>	<b><u>27,207</u></b>
Store with Dwelling	Fully Taxable	\$2,710,425,800	\$2,710,425,800	\$0	12,722
Store with Dwelling	Abatement	248,270,600	135,312,637	112,957,963	760
Store with Dwelling	Exemption	<u>273,755,100</u>	<u>215,685,182</u>	<u>58,069,918</u>	<u>1,281</u>
<b>Total</b>		<b><u>\$3,232,451,500</u></b>	<b><u>\$3,061,423,619</u></b>	<b><u>\$171,027,881</u></b>	<b><u>14,763</u></b>
Commercial	Fully Taxable	\$15,061,397,900	\$15,061,397,900	\$0	10,020
Commercial	Abatement	1,710,678,900	841,467,004	869,211,896	400
Commercial	Exemption	<u>25,401,030,100</u>	<u>529,930,868</u>	<u>24,871,099,232</u>	<u>4,394</u>
<b>Total</b>		<b><u>\$42,173,106,900</u></b>	<b><u>\$16,432,795,772</u></b>	<b><u>\$25,740,311,128</u></b>	<b><u>14,814</u></b>
Industrial	Fully Taxable	\$2,781,476,200	\$2,781,476,200	\$0	4,129
Industrial	Abatement	127,442,100	50,481,990	76,960,110	60
Industrial	Exemption	<u>553,087,800</u>	<u>27,130,885</u>	<u>525,956,915</u>	<u>238</u>
<b>Total</b>		<b><u>\$3,462,006,100</u></b>	<b><u>\$2,859,089,075</u></b>	<b><u>\$602,917,025</u></b>	<b><u>4,427</u></b>
Vacant Land	Fully Taxable	\$1,447,838,635	\$1,447,838,635	\$0	33,302
Vacant Land	Abatement	32,505,900	2,054,545	30,451,355	47
Vacant Land	Exemption	<u>1,985,521,500</u>	<u>17,718,350</u>	<u>1,967,803,150</u>	<u>12,057</u>
<b>Total</b>		<b><u>\$3,465,866,035</u></b>	<b><u>\$1,467,611,530</u></b>	<b><u>\$1,998,254,505</u></b>	<b><u>45,406</u></b>
<b>Grand Total</b>		<b><u>\$136,295,463,236</u></b>	<b><u>\$91,536,523,753</u></b>	<b><u>\$44,758,939,483</u></b>	<b><u>579,536</u></b>

\* Certified Market Value as of 3/31/2015.

**Tax Year 2017\***

<b><u>Category</u></b>	<b><u>Tax Status</u></b>	<b><u>Assessed Value</u></b>	<b><u>Taxable Assessed Value</u></b>	<b><u>Exempt Assessed Value</u></b>	<b><u>Number of Parcels</u></b>
Residential	Fully Taxable	\$27,239,032,724	\$27,239,032,724	\$0	227,596
Residential	Abatement	5,656,888,300	1,584,639,283	4,072,249,017	13,906
Residential	Exemption	<u>35,439,456,377</u>	<u>27,462,644,199</u>	<u>7,976,812,178</u>	<u>231,790</u>
<b>Total</b>		<b><u>\$68,335,377,401</u></b>	<b><u>\$56,286,316,206</u></b>	<b><u>\$12,049,061,195</u></b>	<b><u>473,292</u></b>
Hotels and Apartments	Fully Taxable	\$11,309,938,300	\$11,309,938,300	\$0	21,819
Hotels and Apartments	Abatement	2,732,361,800	781,802,004	1,950,559,796	768
Hotels and Apartments	Exemption	<u>3,144,407,300</u>	<u>1,009,817,435</u>	<u>2,134,589,865</u>	<u>4,629</u>
<b>Total</b>		<b><u>\$17,186,707,400</u></b>	<b><u>\$13,101,557,739</u></b>	<b><u>\$4,085,149,661</u></b>	<b><u>27,216</u></b>
Store with Dwelling	Fully Taxable	\$2,654,179,000	\$2,654,179,000	\$0	12,611
Store with Dwelling	Abatement	113,049,600	49,070,436	63,979,164	211
Store with Dwelling	Exemption	<u>410,214,200</u>	<u>295,454,160</u>	<u>114,760,040</u>	<u>1,830</u>
<b>Total</b>		<b><u>\$3,177,442,800</u></b>	<b><u>\$2,998,703,596</u></b>	<b><u>\$178,739,204</u></b>	<b><u>14,652</u></b>
Commercial	Fully Taxable	\$13,987,005,400	\$13,987,005,400	\$0	9,873
Commercial	Abatement	2,474,106,400	787,638,368	1,686,468,032	426
Commercial	Exemption	<u>24,712,736,300</u>	<u>430,585,920</u>	<u>24,282,150,380</u>	<u>4,358</u>
<b>Total</b>		<b><u>\$41,173,848,100</u></b>	<b><u>\$15,205,229,688</u></b>	<b><u>\$25,968,618,412</u></b>	<b><u>14,657</u></b>
Industrial	Fully Taxable	\$2,654,419,300	\$2,654,419,300	\$0	3,960
Industrial	Abatement	292,220,700	49,509,849	242,710,851	107
Industrial	Exemption	<u>499,667,800</u>	<u>28,545,270</u>	<u>471,122,530</u>	<u>291</u>
<b>Total</b>		<b><u>\$3,446,307,800</u></b>	<b><u>\$2,732,474,419</u></b>	<b><u>\$713,833,381</u></b>	<b><u>4,358</u></b>
Vacant Land	Fully Taxable	\$1,397,808,735	\$1,397,808,735	\$0	33,804
Vacant Land	Abatement	42,839,500	117,908	42,721,592	35
Vacant Land	Exemption	<u>1,921,166,000</u>	<u>18,996,099</u>	<u>1,902,169,901</u>	<u>11,898</u>
<b>Total</b>		<b><u>\$3,361,814,235</u></b>	<b><u>\$1,416,922,742</u></b>	<b><u>\$1,944,891,493</u></b>	<b><u>45,737</u></b>
<b>Grand Total</b>		<b><u>\$136,681,497,736**</u></b>	<b><u>\$91,741,204,390</u></b>	<b><u>\$44,940,293,346</u></b>	<b><u>579,912</u></b>

\* Certified Market Value as of 3/31/2016

\*\* Based on revised market values for tax year 2017, as of 3/31/2017, the revised assessed value is \$136,155,134,213 (based on 580,134 parcels).

As part of the transition to the new assessment system, OPA set up a new process called a first level review (“FLR”), where a taxpayer could request an administrative review of its assessment notice prior to launching a formal appeal with the BRT. The BRT has the authority, following a formal appeal, to either increase or decrease the property valuations contained in the return of the assessors in order that such valuations conform with law. After all changes in property assessments, and after all assessment appeals, assessments are certified and the results provided to the Department of Revenue.

For tax year 2016, OPA mailed approximately 131,000 Change of Assessment notices. OPA received 3,828 FLRs and BRT received 3,663 formal appeals. As of March 27, 2017, all but 45 FLRs and 50 BRT appeals had been decided. As a result of decisions rendered for those FLR and BRT appeals, appeals from previous years, and regular OPA reassessment and analysis, the total taxable assessment has been revised from \$91,536,523,753 (at certification on March 31, 2015) to \$89,274,659,390 (as of July 14, 2016). This is a net taxable assessment decrease of \$2,261,864,363.

For tax year 2017, OPA mailed approximately 520,000 Change of Assessment notices. OPA received 8,340 FLRs and BRT received 4,566 formal appeals. As of March 27, 2017, all but 691 FLRs have been decided. By March 31, 2017, all but 1,590 BRT appeals are expected to be decided. As a result of decisions rendered for those FLR and BRT appeals, appeals from previous years, and regular OPA reassessment and analysis, the total taxable assessment has been revised from \$91,741,204,390 (at certification on March 31, 2016) to \$90,767,957,893 (as of March 22, 2017). This is a net taxable assessment decrease of \$973,246,497.

As of March 2017, approximately 78 appeals remain for tax years 2014, 2015, and 2016. Approximately 43 of those have hearings that were continued, approximately 27 are recently received appeals granted *nunc pro tunc* petitions or court hearings, and the remaining appeals are exceptional cases awaiting court orders or which have been consolidated. The BRT began hearing tax year 2017 appeals in January 2017. On October 24, 2012, the Governor approved Act 160 (“Act 160”), which permits downward adjustments to School District property tax and use and occupancy tax rates, solely to offset the higher assessed values anticipated under AVI, and only to the extent the yield from such lower rates is no lower than the highest tax yield in the previous three years. Act 160 permits such adjustment for the reassessment year and the two years thereafter. Act 160 also precludes the School District from using its direct authority to levy real estate taxes, separately granted by the General Assembly of the Commonwealth, but only to the extent the City authorizes School District real estate taxes yielding an amount not lower than total real estate taxes yielded in the year prior to the year of the revision of assessments, adjusted to account for increases in assessed value since the first year of revision.

In 2014, City Council passed legislation intended to ease the transition to AVI, which provided, for tax year 2014 only, that residential and commercial property owners who appeal their new property assessments need only pay the prior year’s amount of Real Estate Tax and (if applicable) use and occupancy tax, pending the assessment appeal. Interest and penalties would not accrue on the additional 2014 tax liability during the appeal, whether or not the appeal is ultimately successful. The City estimates that it will collect net of refunds approximately \$1.1 million of additional one-time tax revenues in Fiscal Year 2016 from taxpayers who are paying the tax year 2014 amounts and the tax year 2015 amounts in Fiscal Year 2016 and an additional \$6.6 million of additional one-time tax revenues stemming from delayed appeals in Fiscal Year 2017.

With AVI, the OPA planned to conduct full reassessments annually; however, staff resources have been redeployed to focus on the large number of appeals. For tax year 2017, OPA conducted reassessments on residential properties for which land to building allocations have been revised, and for all vacant land parcels not currently being used for commercial purposes. For tax year 2018, OPA conducted reassessments on commercial, industrial, and institutionally-owned parcels. In total, OPA

reassessed approximately 520,000 properties for tax year 2017, and approximately 40,000 properties for tax year 2018. The OPA plans to conduct a comprehensive reassessment of all properties in the City for tax year 2019.

Historically, the City did not commence collection of Real Estate Taxes while they were “overdue,” between the March 31 due date and January 1 when they became “delinquent.” In late 2010, the Department of Revenue sent a letter to taxpayers who had overdue taxes, but had paid all prior years, to explain that if they did not pay by the end of the year, the addition on their Real Estate Tax would be capitalized (i.e. become part of the principal) and their tax liability would become a lien on the property. This effort has been repeated each year since and has resulted in significant collections and reduction of expenses that would otherwise be incurred for further collection efforts. Also in 2012 and 2013, the Department of Revenue and the Law Department hired two outside collection firms to collect overdue Real Estate Taxes with an Outbound Calling Campaign. This project has contributed to a decrease in first time Real Estate Tax delinquencies and generated a total of approximately \$17,000,000 in collections of overdue Real Estate Taxes in 2013. The City is continuing this practice and pursuing a number of other initiatives to improve collections, including sequestration of delinquent properties occupied by commercial tenants and tax lien sales.

See Table 8 below for data with respect to Real Estate Taxes levied from 2012 to 2016 and collected by the City from 2012 to June 30, 2016. See Table 9 for the assessed property values of the City’s principal taxable assessed parcels in 2016. See Table 10 for the 2016 market and assessed values of the ten highest valued taxable real properties in the City as well as the amounts and duration of Real Estate Tax abatements with respect to such properties.

**Table 8**  
**City of Philadelphia**  
**Real Property Taxes Levied and Collected**  
**For the Calendar Years 2012-2016**  
**(Amounts in Millions of USD)<sup>(1), (2)</sup>**

Calendar Year	Taxes Levied Based on Original Assessment <sup>(3)</sup>	Taxes Levied Based on Adjusted Assessment <sup>(4)</sup>	Collections in the Calendar Year of Levy <sup>(6)</sup>	Percentage Collected in the Calendar Year of Levy	Collections in Subsequent Years <sup>(5), (6)</sup>	Total Collections to Date: All Years <sup>(6)</sup>	Percentage Collected to Date: All Years <sup>(6)</sup>
2012	\$508.6	\$491.1	\$459.2	93.5%	\$22.7	\$481.9	98.1%
2013	\$554.0	\$537.7	\$505.6	94.0%	\$22.8	\$528.4	98.3%
2014	\$553.2	\$515.4	\$482.1	93.5%	\$21.2	\$503.3	97.7%
2015	\$547.4	\$519.1	\$489.1	94.2%	\$10.9	\$500.0	96.3%
2016	\$569.9	\$552.7	\$502.6	90.9%	N/A	\$502.6	90.9%

<sup>(1)</sup> Source: Fiscal Year 2016 CAFR.

<sup>(2)</sup> Real Estate Taxes are levied by the City and the School District. While this table reflects City General Fund Real Estate Tax revenues exclusively, the School District Real Estate Tax collection rates are the same.

<sup>(3)</sup> Taxes are levied on a calendar year basis. They are due on March 31.

<sup>(4)</sup> Adjustments include assessment appeals, a 1% discount for payment in full by February 28, the senior citizen tax discount, and the tax increment financing return of tax paid.

<sup>(5)</sup> Includes payments from capitalization charges. This capitalization occurs one time, after the end of the first year of the levy, on any unpaid balances.

<sup>(6)</sup> For calendar year 2016, the data shown reflects collections through June 30, 2016. For earlier calendar years, the data shown reflects collections through December 31 of the respective year.

**Table 9**  
**Principal Taxable Assessed Parcels – 2016**  
**(Amounts in Millions of USD) <sup>(1)</sup>**

Taxpayer	2016	
	Assessment <sup>(2)</sup>	Percentage of Total Assessments
HUB Properties Trust	\$265.7	0.29%
Nine Penn Center Associates	232.6	0.25
Phila Liberty Place ELP	207.7	0.23
Philadelphia Market Street	203.7	0.22
Tenet Health Systems Hahnemann	192.1	0.21
Commerce Square Partners	178.2	0.19
Maguire / Thomas	170.1	0.19
NNN 1818 Market Street 37	170.0	0.19
Franklin Mills Associates	163.2	0.18
Brandywine Cira	160.7 <sup>(3)</sup>	0.18
Total	<u>\$1,944.0</u>	2.12 %
Total Taxable Assessments <sup>(4)</sup>	<u>\$91,536.5</u>	

Source: City of Philadelphia, Office of Property Assessment.

<sup>(1)</sup> Figures may not sum due to rounding.

<sup>(2)</sup> Assessment Values rounded to the nearest \$100,000 and only include the largest assessed property for each taxpayer, additional properties owned by the same taxpayer are not included.

<sup>(3)</sup> Brandywine Cira was made fully taxable in error for tax year 2016, which was corrected after March 31, 2015. Following such correction, Brandywine Cira was assessed at \$159.4 million.

<sup>(4)</sup> Total 2016 Taxable Assessment as of March 31, 2015

**Table 10**  
**Ten Largest Certified Market and Assessment Values of Tax-Abated Properties**  
**Certified Values for 2016**  
**(Amounts in Millions of USD)**

Location	2016 Certified Market Value	Total Assessment	Total Taxable Assessment	Total Exempt Assessment	Exempt Through Tax Year
1701 John F Kennedy Blvd.	\$212.5	\$212.5	\$9.1	\$203.4	2017
1001 N Delaware Ave.	\$150.9	\$150.9	\$39.3	\$111.6	2020
1500-30 Spring Garden St.	\$138.7	\$138.7	\$78.4	\$60.3	2020
2116 Chestnut St.	\$72.5	\$72.5	\$1.4	\$71.1	2023
2323 Race St.	\$72.4	\$72.4	\$2.8	\$69.5	2016
2026-58 Market St.	\$65.0	\$65.0	\$8.4	\$56.6	2023
1601 N 15 <sup>th</sup> St.	\$64.2	\$64.2	\$0.5	\$63.7	2017
233-43 S Broad St.	\$62.4	\$62.4	\$56.1	\$6.3	2023
3401 Chestnut St.	\$61.2	\$64.6	\$0.0	\$61.2	2017
907-37 Market St.	\$61.0	\$61.0	\$41.4	\$19.6	2016

Source: City of Philadelphia, Office of Property Assessment.



## **Sales and Use Tax**

Pursuant to the authorization granted by the Commonwealth under the PICA Act, the City adopted a 1% sales and use tax (the “City Sales Tax”) for City general revenue purposes effective beginning in Fiscal Year 1992. It is imposed in addition to, and on the same basis as, the Commonwealth’s sales and use tax. Vendors are required to pay City Sales Taxes to the Commonwealth Department of Revenue together with the Commonwealth sales and use tax. The State Treasurer deposits the collections of City Sales Taxes in a special fund and disburses the collections, including any investment income earned thereon, less administrative fees of the Commonwealth Department of Revenue, to the City on a monthly basis.

The City’s budgets for Fiscal Years 2010-2014 provided for an increase in the City Sales Tax rate to 2%, as authorized by the Commonwealth effective October 8, 2009, through June 30, 2014. In July 2013, the Commonwealth authorized the implementation of a new, permanent 1% increase in the City Sales Tax rate effective July 1, 2014, which was adopted by the City on June 12, 2014 and became effective on July 1, 2014. Under the reauthorized City Sales Tax, the first \$120 million collected from such additional 1% is distributed to the School District. For Fiscal Years 2015-2018, the General Assembly has also authorized the City to use the next \$15 million of City Sales Tax revenues from such additional 1% collected in such Fiscal Years for the payment of debt service on obligations issued by the City for the benefit of the School District. Following any such debt service payments, that remaining portion of the City Sales Tax revenues from such additional 1% distributed to the City is required to be used exclusively in accordance with Act 205 (as defined herein) and deposited to the Municipal Pension Fund.

In October 2014, the City, through PAID, issued \$57.5 million in bonds to fund a portion of the School District’s operating deficit for Fiscal Year 2015 and refund certain outstanding bonds that funded a portion of the Fiscal Year 2014 operating deficit. The debt service on such bonds is approximately \$15 million annually through Fiscal Year 2018 and the City expects to continue paying its obligations with respect to such bonds with a combination of proceeds from the City Sales Tax revenues and other General Fund revenues. Such City Sales Tax revenues are not pledged to the holders of such bonds. Such funding by the City of a portion of the School District’s operating deficits for Fiscal Years 2014-2015, and the related payment of debt service, does not require a comparable increase in grants by the City to the School District in subsequent Fiscal Years. See “EXPENDITURES OF THE CITY – City Payments to School District” and the paragraphs that follow Table 21.

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The following table sets forth the City Sales Taxes collected in Fiscal Years 2012-2016 and the budgeted amount and current estimate for Fiscal Year 2017.

**Table 11**  
**Summary of City Sales Tax Collections**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Adopted Budget and Current Estimate)**  
**(Amounts in Millions of USD)<sup>(1)</sup>**

<u>Fiscal Year</u>	<u>City Sales Tax Collections</u>
2012 (Actual)	\$253.5
2013 (Actual)	\$257.6
2014 (Actual)	\$263.1
2015 (Actual)	\$149.5 <sup>(2)</sup>
2016 (Actual)	\$169.4 <sup>(2)</sup>
2017 (Adopted Budget)	\$177.5 <sup>(2)</sup>
2017 (Current Estimate)	\$186.6 <sup>(2)</sup>

<sup>(1)</sup> Sources: For Fiscal Years 2012-2016, the City's CAFRs for such Fiscal Years. For Fiscal Year 2017, the Fiscal Year 2017 Adopted Budget and the Proposed Fiscal Year 2018 Budget.

<sup>(2)</sup> Net collections estimated to be distributed to the City from the first 1% City Sales Tax and following the distribution of \$120 million of revenues from the second 1% City Sales Tax to the School District, as described above.

## Other Taxes

The City also collects real property transfer taxes, parking taxes, an amusement tax, a valet parking tax, an outdoor advertising tax, a smokeless tobacco tax, the Philadelphia Beverage Tax (see below), and other miscellaneous taxes.

In June 2016, City Council passed the Philadelphia Beverage Tax (Chapter 19-4100 of the Philadelphia Code) (the "Philadelphia Beverage Tax"). On October 31, 2016, the Department of Revenue adopted regulations for the Philadelphia Beverage Tax. The Philadelphia Beverage Tax taxes the distribution of certain beverages at 1.5 cents per ounce and became effective January 1, 2017.

The Philadelphia Beverage Tax is expected to provide funding for pre-kindergarten, community schools, and improvements to parks, recreational centers, and libraries. For Fiscal Years 2018-2022, the Proposed Twenty-Sixth Five-Year Plan projects that the City will collect approximately \$92.4 million (Fiscal Year 2018), \$92.5 million (Fiscal Year 2019), \$92.6 million (Fiscal Year 2020), \$92.1 million (Fiscal Year 2021), and \$91.7 million (Fiscal Year 2022) in revenues from the Philadelphia Beverage Tax in such Fiscal Years.

On September 14, 2016, a lawsuit challenging the Philadelphia Beverage Tax was filed by the American Beverage Association and other co-plaintiffs in the Philadelphia Court of Common Pleas – Trial Division – Civil. On December 19, 2016, the Court of Common Pleas dismissed the complaint in its entirety. The plaintiffs have appealed this ruling. The appeal has been set for expedited disposition in the Commonwealth Court of Pennsylvania, which is one of the Commonwealth's intermediate appellate courts. Briefs have been filed and arguments on such appeal are expected to be heard in the Commonwealth Court during the first week of April 2017.

For more general information on judgments and settlements on claims against the City, see "LITIGATION."

## Improved Collection Initiative

The City is pursuing a multifaceted strategy designed to improve collections of various taxes while decreasing delinquencies. Key compliance strategies continue to include revocation of commercial licenses and sequestration and tax lien sales, among others.

In addition to compliance efforts, the City is engaged in two active projects to implement technology solutions for its cashiering and payments processing systems and to develop an integrated data warehouse and case management system. These initiatives are designed to improve operational efficiencies and drive compliance efforts by providing tools currently unavailable to the City.

## Other Locally Generated Non-Tax Revenues

These revenues include license fees and permit sales, traffic fines and parking meter receipts, court related fees, stadium revenues, interest earnings and other miscellaneous charges and revenues of the City.

## Revenue from Other Governments

The following table presents revenues received from other governmental jurisdictions for Fiscal Years 2012-2016, the budgeted amounts and current estimate for Fiscal Year 2017, and the percentage such revenues represent in the General Fund. The table does not reflect substantial amounts of revenues from other governments received by the Grants Revenue Fund, Community Development Fund, and other operating and capital funds of the City.

**Table 12**  
**Revenue from Other Governmental Jurisdictions**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Adopted Budget and Current Estimate)**  
**(Dollar Amounts in Millions of USD)<sup>(1), (2), (3)</sup>**

<b>Fiscal Year</b>	<b>Commonwealth<sup>(4)</sup></b>	<b>Federal Government</b>	<b>Other Governments<sup>(5)</sup></b>	<b>Total</b>	<b>Percentage of General Fund Revenues</b>
2012 (Actual)	\$241.6	\$97.0	\$82.1	\$420.7 <sup>(6)</sup>	12.0%
2013 (Actual)	\$233.6	\$39.7	\$64.2	\$337.5 <sup>(6)</sup>	9.1%
2014 (Actual)	\$255.3	\$31.0	\$61.0	\$347.3	9.1%
2015 (Actual)	\$212.7	\$30.1	\$60.0	\$302.8	8.1%
2016 (Actual)	\$223.7	\$29.7	\$52.3	\$305.6	7.7%
2017 (Adopted Budget)	\$220.8	\$31.4	\$60.1	\$312.3	7.6%
2017 (Current Estimate)	\$220.2	\$38.1	\$56.7	\$316.9	7.6%

<sup>(1)</sup> Sources: For Fiscal Years 2012-2016, the City's CAFRs for such Fiscal Years. For Fiscal Year 2017, the Fiscal Year 2017 Adopted Budget and the Proposed Fiscal Year 2018 Budget.

<sup>(2)</sup> Figures may not sum due to rounding.

<sup>(3)</sup> Does not include the PICA Tax.

<sup>(4)</sup> Such revenues are for health, welfare, court, and various other specified purposes.

<sup>(5)</sup> Such revenues primarily consist of payments from PGW, parking fines and fees from PPA, and other authorized adjustments.

<sup>(6)</sup> Fiscal Year 2011 was the last year that the full amount of revenue for DHS (as defined herein) was deposited into the General Fund. The decrease in revenues from Fiscal Year 2012 to Fiscal Year 2013 is largely due to the transfer of the majority of DHS revenue and obligations to the Grants Revenue Fund.

## Proposals to Reduce Federal and/or State Funding

Sanctuary City. *The following discussion of Senate Bill 10 and the Executive Order (each as defined below) addresses proposed state legislation and a federal policy that, if enacted and deemed enforceable, may affect certain funding for the City. The City is monitoring Senate Bill 10 and the Executive Order and the potential impact, if any, such initiatives may have on City funding. As of the date of this Official Statement, Senate Bill 10 remains in committee in the Pennsylvania House of Representatives (as described below) and, to the City's knowledge, the Executive Order has not been enforced against any jurisdictions. Table 12 above presents certain revenues received from other governmental jurisdictions, including the Commonwealth and the federal government, and the percentage such revenues represent in the General Fund.*

*Commonwealth Funding.* Senate Bill No. 10, Session of 2017, was passed by the Pennsylvania State Senate on February 7, 2017 ("Senate Bill 10"). Senate Bill 10 has been referred to the Judiciary Committee of the Pennsylvania House of Representatives.

Senate Bill 10 proposes to amend certain provisions of the Pennsylvania Consolidated Statutes, in matters addressing municipalities of refuge and the eligibility of such municipalities to receive certain Commonwealth funding, among other things. In such bill, a "municipality of refuge" is defined as "a municipality that permits, requires or requests the release of an individual in the custody of the law enforcement agency of the municipality notwithstanding the existence of a United States Immigration and Customs Enforcement civil immigration detainer request for the individual."

Under Senate Bill 10, the governing body of any municipality is prohibited from adopting "a rule, order, ordinance or policy which prohibits the enforcement of a Federal law or the laws of [the] Commonwealth, pertaining to an immigrant or immigrations." The bill also provides that, with certain exceptions, "a law enforcement agency or municipality that refuses to enforce an immigration order shall not be eligible for any [S]tate grant." Under the bill, in order to be eligible to receive State grant funds, a municipality is required to certify to State agencies and departments offering such grants that it is not a municipality of refuge and is otherwise in compliance with the provisions of the bill. Senate Bill 10 also provides for certain exceptions to governmental immunity for municipalities of refuge.

The City estimates that in Fiscal Year 2016 it received a total of approximately \$1.7 billion from the Commonwealth, including: (i) nondiscretionary funding (e.g., funds the City is required to spend for the protection of children in the child welfare system); (ii) formulaic funding (e.g., reimbursement by the Commonwealth to the City for carrying out duties the Commonwealth wants the City to provide); and (iii) discretionary funding.

As of the date of this Official Statement, no further action has been taken on Senate Bill 10 and there is no indication of when any action on this legislation will be taken by the Pennsylvania House of Representatives. In addition, it is unclear what Commonwealth funding would be affected by Senate Bill 10. Accordingly, at this time, the City does not have sufficient information on the potential impact, if any, on any Commonwealth funding that may be withheld as a result of Senate Bill 10.

*Federal Government Funding.* On January 25, 2017, President Trump issued “Executive Order – Enhancing Public Safety in the Interior of the United States,” which aims to address certain immigration policies of the administration relating to “sanctuary jurisdictions,” among other things (the “Executive Order”). The Executive Order states, in part, that the policy of the executive branch will be to “ensure that jurisdictions that fail to comply with applicable Federal law do not receive Federal funds, except as mandated by law.” The Executive Order further provides that:

In furtherance of [such] policy, the Attorney General and the Secretary [of Homeland Security (the “Secretary”)], in their discretion and to the extent consistent with law, shall ensure that jurisdictions that willfully refuse to comply with 8 U.S.C. 1373 (sanctuary jurisdictions) are not eligible to receive Federal grants, except as deemed necessary for law enforcement purposes by the Attorney General or the Secretary. The Secretary has the authority to designate, in his discretion and to the extent consistent with law, a jurisdiction as a sanctuary jurisdiction. The Attorney General shall take appropriate enforcement action against any entity that violates 8 U.S.C. 1373, or which has in effect a statute, policy, or practice that prevents or hinders the enforcement of Federal law.

The practical import of this Executive Order is unclear. The Executive Order raises many questions of law regarding the attachment of the above policies to federal funding. Accordingly, at this time, the City does not have sufficient information on the potential impact, if any, on any federal funding that may be withheld as a result of this Executive Order.

### **Revenues from City-Owned Systems**

In addition to taxes, the City realizes revenues through the operation of various City-owned systems such as the Water and Wastewater Systems and PGW. The City has issued revenue bonds with respect to the Water and Wastewater Systems and PGW to be paid solely from and secured by a pledge of the respective revenues of these systems. The revenues of the Water and Wastewater Systems and PGW are not legally available for payment of other obligations of the City until, on an annual basis, all revenue bond debt service requirements and covenants relating to those bonds have been satisfied, and then only in a limited amount and upon satisfaction of certain other conditions.

Water Fund. The revenues of the Philadelphia Water Department (the “Water Department”) are required to be segregated from other funds of the City. Under the City’s Restated General Water and Wastewater Revenue Bond Ordinance of 1989 (the “Water Ordinance”), an annual transfer may be made from the Water Fund to the City’s General Fund in an amount not to exceed the lesser of (i) all Net Reserve Earnings and (ii) \$4,994,000. “Net Reserve Earnings” means the amount of interest earnings during the Fiscal Year on amounts in the Debt Reserve Account and Subordinated Bond Fund, each as defined in the Water Ordinance. The following table shows the amounts transferred from the Water Fund to the General Fund for Fiscal Years 2012-2016 and the budgeted amount and current estimate for Fiscal Year 2017.

**Table 13**  
**Transfers from Water Fund to General Fund (Excess Interest on Sinking Fund Reserve)**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Adopted Budget and Current Estimate)<sup>(1)</sup>**

Fiscal Year	Amount Transferred
2012 (Actual)	\$1,086,165
2013 (Actual)	\$560,156
2014 (Actual)	\$400,364
2015 (Actual)	\$745,585
2016 (Actual)	\$1,555,702
2017 (Adopted Budget and Current Estimate)	\$900,000 <sup>(2)</sup>

<sup>(1)</sup> Sources: For Fiscal Years 2012-2015, the City's Supplemental Report of Revenues & Obligations for such Fiscal Years. For Fiscal Year 2016, the Proposed Fiscal Year 2018 Budget. For Fiscal Year 2017, the Fiscal Year 2017 Adopted Budget and the Proposed Fiscal Year 2018 Budget.

<sup>(2)</sup> For Fiscal Year 2017, the Water Department has budgeted \$1,200,000 as its transfer from the Water Fund to the General Fund. Historically, the Water Department's budgeted amount is greater than the figure included in the City's operating budget.

**PGW.** The revenues of PGW are required to be segregated from other funds of the City. Payments for debt service on PGW bonds are made directly by PGW. PGW is required to make an annual payment of \$18 million to the General Fund. Both the Fiscal Year 2017 Adopted Budget and the Proposed Fiscal Year 2018 Budget include such \$18 million annual payment to the General Fund from PGW for such Fiscal Years. In certain past Fiscal Years, the City granted back to PGW such annual payments. For more information on PGW, see "THE GOVERNMENT OF THE CITY OF PHILADELPHIA – Government Services."

### **Philadelphia Parking Authority Revenues**

The PPA was established by City ordinance pursuant to the Pennsylvania Parking Authority Law (P.L. 458, No. 208 (June 5, 1947)). Various statutes, ordinances, and contracts authorize PPA to plan, design, acquire, hold, construct, improve, maintain and operate, own or lease land and facilities for parking in the City, including such facilities at PHL, and to administer the City's on-street parking program.

PPA owns and operates five parking garages and a number of surface parking lots at PHL. The land on which these garages and surface lots are located is leased from the City, acting through the Division of Aviation, pursuant to a lease expiring in 2030 (the "Lease Agreement"). The Lease Agreement provides for payment of rent to the City, which is equal to gross receipts less operating expense, debt service on PPA's bonds issued to finance improvements at PHL and reimbursement to PPA for capital expenditures and prior year operating deficits relating to its operations at PHL, if any.

One component of the operating expenses is PPA's administrative costs. In 1999, at the request of the FAA, PPA and the City entered into a letter agreement (the "FAA Letter Agreement"), which contained a formula for calculating PPA's administrative costs and capped such administrative costs at 28% of PPA's total administrative costs for all of its cost centers. PPA owns and/or operates parking facilities at a number of locations in the City in addition to those at PHL. These parking facilities are revenue centers for purposes of the FAA Letter Agreement. According to PPA's audited financial statements, as filed with the City, PPA has been in compliance with the FAA Letter Agreement since its execution.

On-street parking revenues are administered and collected on behalf of the City by the PPA. Pursuant to Pennsylvania law, PPA is to transmit these revenues to the City, net of any actual expenses incurred in the administration of the on-street parking system in accordance with the PPA's approved budget, provided that, should such net revenues exceed a designated threshold, any excess above that threshold is to be transmitted to the School District. Pursuant to Act 84 of 2012, the effect of which commenced in Fiscal Year 2015, the threshold, which was previously set at \$25 million, was set at \$35 million, including a mandatory escalator to take into account increases in revenues. The following table presents payments received by the City from PPA for on-street parking for Fiscal Years 2012-2016 and the budgeted amount and current estimate for Fiscal Year 2017.

**Table 14**  
**PPA On-Street Parking Payments to the City**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Adopted Budget and Current Estimate) <sup>(1)</sup>**

Fiscal Year	Payments to the City
2012 (Actual)	\$37.3
2013 (Actual)	\$36.5
2014 (Actual)	\$37.7
2015 (Actual)	\$38.0
2016 (Actual)	\$33.7
2017 (Adopted Budget)	\$39.6
2017 (Current Estimate)	\$38.1

<sup>(1)</sup> Sources: For Fiscal Years 2012-2015, the City's Supplemental Report of Revenues & Obligations for such Fiscal Years. For Fiscal Years 2016-2017, the Proposed Fiscal Year 2018 Budget.

### Proposed Tax Rate Changes

The Proposed Twenty-Sixth Five-Year Plan includes reductions in both the resident and non-resident wage and earnings tax, which resumed in Fiscal Year 2014 after being suspended during the national economic downturn. The following table details rates under the Proposed Twenty-Sixth Five-Year Plan.

**Table 15**  
**Changes in Wage and Earnings Tax Rates<sup>(1)</sup>**

Fiscal Year	<b>Proposed Twenty-Sixth Five-Year Plan</b>	
	Resident Wage and Earnings	Non-Resident Wage and Earnings
	Tax Rates <sup>(2)</sup>	Tax Rates
2017	3.9004%	3.4741%
2018	3.8907%	3.4654%
2019	3.8420%	3.4221%
2020	3.7844%	3.3707%
2021	3.7276%	3.3202%
2022	3.6997%	3.2953%

<sup>(1)</sup> Source: The Proposed Twenty-Sixth Five-Year Plan.

<sup>(2)</sup> Includes PICA Tax. See "DEBT OF THE CITY – PICA Bonds" for a description of the PICA Tax.

Under the Proposed Twenty-Sixth Five-Year Plan, receipts from the Wage and Earnings Tax are estimated to grow at a rate of 3.68% in Fiscal Year 2017, 3.41% in Fiscal Year 2018, 3.78% in Fiscal Year 2019, 3.62% in Fiscal Year 2020, 3.56% in Fiscal Year 2021, and 3.59% in Fiscal Year 2022.

## EXPENDITURES OF THE CITY

Three of the principal City expenditures are for personal services (including pensions and other employee benefits), purchase of services (including payments to SEPTA), and debt service. The expenditures for personal services and purchase of services are addressed below under this caption; debt service is addressed below under “DEBT OF THE CITY.”

### Personal Services (Personnel)

As of June 30, 2016, the City employed 27,042 full-time employees, representing approximately 3.89% of non-farm public and private employment in the City (approximately 694,900 employees, according to non-seasonally adjusted data from the Bureau of Labor Statistics). Of these full-time public employees, the salaries of 21,427 were paid from the General Fund. Additional sources of funding for full-time public employees include the Grants Revenue Fund, the Water Fund, and the Aviation Fund, as well as grants and contributions from other governments. Activities funded through such grants and contributions are not undertaken if funding is not received. The following table sets forth the number of filled, full-time positions of the City as of the dates indicated.

**Table 16**  
**Filled, Full-Time Positions<sup>(1), (2)</sup>**

	<u>June 30, 2012</u>	<u>June 30, 2013</u>	<u>June 30, 2014</u>	<u>June 30, 2015</u>	<u>June 30, 2016</u>
<u>General Fund</u>					
Police	7,225	7,193	7,095	7,061	6,942
Fire	2,072	2,125	2,053	2,150	2,316
Courts	1,957	1,909	1,866	1,842	1,839
Prisons	2,144	2,248	2,268	2,286	2,289
Streets	1,682	1,690	1,684	1,664	1,676
Public Health	669	673	659	653	653
Human Services <sup>(3)</sup>	804	377	382	395	449
All Other	<u>4,622</u>	<u>4,710</u>	<u>4,984</u>	<u>5,115</u>	<u>5,263</u>
<u>Total – General Fund</u>	<u>21,175</u>	<u>20,925</u>	<u>20,991</u>	<u>21,166</u>	<u>21,427</u>
<u>Other Funds</u>	<u>4,540</u>	<u>5,547</u>	<u>5,657</u>	<u>5,626</u>	<u>5,615</u>
<u>Total – All Funds</u>	<u>25,715</u>	<u>26,472</u>	<u>26,648</u>	<u>26,792</u>	<u>27,042</u>

<sup>(1)</sup> Source: Table P-1 in the City’s Quarterly City Manager’s Reports.

<sup>(2)</sup> Table 16 does not include seasonal or temporary employees.

<sup>(3)</sup> Fiscal Year 2011 was the last year that the full amount of revenue for DHS was deposited into the General Fund. The decrease in filled, full-time positions Fiscal Year 2012 to Fiscal Year 2013 is largely due to the transfer of the majority of DHS revenue and obligations to the Grants Revenue Fund.

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## Overview of City Employees

The wages and benefits of City employees vary not only by position, but also by whether the employees are represented by a union and, if so, which union. Employee wages and benefits may also be impacted by whether the employee is subject to the civil service system or exempt from those rules. Thus, City employees may be broken down into three major categories for purposes of understanding how their wages and benefits are determined: (i) employees who are not subject to the civil service system (“exempt employees”); (ii) employees who fall under the civil service system but are not represented by a union (“non-represented employees”); and (iii) employees who are subject to the civil service system and are represented by a union (“union employees”).

As of June 30, 2016, the City’s 22,789 unionized employees, representing approximately 84.3% of the City’s employees, were represented by the City’s four municipal unions: (i) FOP Lodge No. 5; (ii) IAFF Local 22; (iii) AFSCME DC 33; and (iv) AFSCME DC 47.

In July 2016, a collective bargaining agreement was reached with AFSCME DC 33, which provides for pension reforms coupled with salary increases, lump sum payments for health care, and a one-time bonus. This collective bargaining agreement was ratified on August 19, 2016. The costs of such agreement, along with the cost of the wage reopener with IAFF Local 22, are included in the Modified Twenty-Fifth Five-Year Plan. Such plan also provides additional resources for compensation changes for other unionized and non-unionized employees.

On June 30, 2017, the labor agreements for FOP Lodge No. 5, IAFF Local 22, and AFSCME DC 47 are set to expire. The Proposed Twenty-Sixth Five-Year Plan includes an aggregate of \$200 million for the potential costs of the new labor agreements for such unions.

Collective bargaining with respect to the wages, hours and other terms and conditions of employment of union employees, other than uniformed employees of the Police Department and the Fire Department, is governed by the Public Employee Relations Act (Pa. P.L. 563, No. 195 (1970)) (“PERA”). PERA requires the City and the unions to negotiate in good faith to attempt to reach agreement on new contract terms and, if an impasse exists after such negotiations, to mediate through the Commonwealth Bureau of Mediation. Once the mediation procedures have been satisfied, and if no collective bargaining agreement has been reached, most employees covered by PERA are permitted to strike. Certain employees, however, including employees of the Sheriff’s Office and the Register of Wills represented by the FOP, corrections officers represented by AFSCME DC 33, and employees of the First Judicial District represented by AFSCME DC 47, are not permitted to strike under PERA. These employees must submit any impasse to binding interest arbitration once the mediation procedures have been satisfied. PERA permits parties at an impasse, which are not required to submit to binding interest arbitration, to do so voluntarily. Provisions of an interest arbitration award issued under PERA that require legislative action are considered advisory only and the legislative body is permitted to meet, consider, and reject those provisions.

Uniformed employees of the Police Department and the Fire Department bargain under the Policemen and Firemen Collective Bargaining Act (Pa. P.L. 237, No. 111 (1968)) (“Act 111”), which provides for final and binding interest arbitration to resolve collective bargaining impasses and prohibits these employees from striking. Interest arbitration under Act 111 operates similarly to interest arbitration under PERA, but City Council is not permitted to reject the portions of an interest arbitration award that require legislative action. To the contrary, City Council is required to pass any legislation necessary to implement the award unless doing so would violate state or federal law. Thus, the arbitration panel has significant, although not limitless, power to issue an award on mandatory subjects of bargaining. As with interest arbitration under PERA, the arbitration panel cannot issue an award on a matter that is one of

inherent managerial policy. In addition to the grounds available to challenge a PERA interest arbitration award on appeal, the PICA Act requires an Act 111 interest arbitration panel to, among other things, give substantial weight to the City's five-year plan and ability to pay for the cost of the award without negatively impacting services, and gives the City the right to appeal the award to the Court of Common Pleas if it believes the panel has failed to meet these responsibilities. If the arbitration panel fails to do so or, among other things, if it awards wages or benefits that exceed what is assumed in the most-recent five-year plan without substantial evidence in the record demonstrating that the City can afford these increases without adversely impacting service levels, the Court of Common Pleas is required to vacate the arbitration award and remand it to the arbitration panel.

## Overview of Employee Benefits

The City provides various pension, life insurance, and health benefits for its employees. The benefits offered depend on the employee's union status and bargaining unit, if applicable. General Fund employee benefit expenditures for Fiscal Years 2012 through 2017 are shown in the following table.

**Table 17**  
**General Fund Employee Benefit Expenditures**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Projected)**  
**(Amounts in Millions of USD)<sup>(1)</sup>**

	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
Pension Contribution <sup>(2)</sup>	\$547.8	\$618.9 <sup>(4)</sup>	\$646.4 <sup>(4)</sup>	\$558.3	\$622.1 <sup>(8)</sup>	\$651.0 <sup>(9)</sup>
Health <sup>(3)</sup>						
Payments under City-administered plan	79.5	76.4	75.6	75.5	72.5	81.9
Payments under union-administered plans <sup>(5)</sup>	<u>299.9</u>	<u>286.8</u>	<u>333.8</u>	<u>319.1</u>	<u>339.0</u>	<u>366.2</u>
Total Health	379.4	363.2	409.4	394.6	411.5	448.1
Federal Insurance Contributions Act (FICA) Taxes <sup>(6)</sup>	67.2	64.7	67.5	71.2	71.7	75.4
Other <sup>(7)</sup>	<u>71.8</u>	<u>72.3</u>	<u>70.8</u>	<u>75.6</u>	<u>78.6</u>	<u>84.1</u>
<b>Total</b>	<u>\$1,066.2</u>	<u>\$1,119.1</u>	<u>\$1,194.1</u>	<u>\$1,099.5</u>	<u>\$1,183.9</u>	<u>\$1,258.6</u>

<sup>(1)</sup> Source: From the City's five-year financial plans, except for "Payments under City-administered plan," which was provided by the City, Department of Human Resources.

<sup>(2)</sup> Includes debt service on Pension Bonds (as defined herein) and the Commonwealth contributions to the Municipal Pension Fund. See Tables 29 and 30.

<sup>(3)</sup> This breakdown of "Health" between "Payments under City-administered plan" and "Payments under union-administered plans" is an estimate of actual expenses. The City records the actual health expenses in one line item, which corresponds to the figures in "Total Health."

<sup>(4)</sup> Includes repayment of deferred contributions. See Table 29.

<sup>(5)</sup> AFSCME DC 33 receives a per member per month amount of \$1,194 from the City.

<sup>(6)</sup> Includes payments of social security and Medicare taxes.

<sup>(7)</sup> Includes payments for unemployment compensation, employee disability, group life, group legal, tool allowance, and flex cash payments.

<sup>(8)</sup> Includes \$9.7 million from City Sales Tax revenues for the Municipal Pension Fund. See "REVENUES OF THE CITY – Sales and Use Tax."

<sup>(9)</sup> Assumes \$18.3 million from City Sales Tax revenues for the Municipal Pension Fund. See "REVENUES OF THE CITY – Sales and Use Tax."

Figures may not sum due to rounding.

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Each of the City's four municipal unions sponsors its own health plan that provides medical, prescription, dental and optical benefits to participating employees and eligible retirees through trusts on which the City has varying degrees of minority representation. Exempt and non-represented employees, along with represented employees of the Register of Wills and employees represented by AFSCME DC 33 who have chosen not to become members of the union's healthcare plan, receive health benefits through a plan sponsored and administered by the City. Each of the plans provides different benefits determined by the plan sponsor or through collective bargaining. To provide health care coverage, the City pays a negotiated monthly premium for employees covered by the union contract for AFSCME DC 33 and is self-insured for all other eligible employees. Aside from AFSCME DC 33, the City is responsible for the actual health care cost that is invoiced to the City's unions by their respective vendors. The actual cost can be a combination of self-insured claim expenses, premiums, ancillary services and administrative expenses. In addition, employees who satisfy the eligibility criteria receive five years of health benefits after their retirement. See "OTHER POST-EMPLOYMENT BENEFITS" below. These benefits are determined and administered by the plan in which the employee participated at the time of his or her retirement. As reflected in Table 17, the health payments under the City-administered plan have been relatively constant; the health payments for the union-sponsored plans have increased substantially since Fiscal Year 2011. Other employee benefits, including life insurance and paid leave, are similarly determined by the respective collective bargaining agreements and City policies and Civil Service Regulations. Employees also participate in the Municipal Pension Plan. See "PENSION SYSTEM" below.

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## Overview of Current Labor Situation

Table 18 summarizes the current status of the interest arbitration awards that have been issued for, and contract settlements reached with, the City's major labor organizations, as well as changes that have been made for exempt and non-represented employees. It also provides a brief summary of pension reforms that have occurred since 2009.

**Table 18**  
**Status of Arbitration Awards and Labor Contract Settlements**

<u>Organization</u>	<u>Authorized Number of Full-Time Citywide Employees Represented<sup>(1)</sup></u>	<u>Status of Arbitration Award or Contract Settlement</u>	<u>Wage Increases</u>	<u>Pension Reforms<sup>(2)</sup></u>
FOP Lodge No. 5 (Police Department)	6,375	Three-year contract effective July 1, 2014 through June 30, 2017 awarded by arbitration panel on July 30, 2014	<ul style="list-style-type: none"> <li>• 3% pay increase for Fiscal Year 2015.</li> <li>• 3.25% pay increase for Fiscal Years 2016 and 2017.</li> </ul>	<ul style="list-style-type: none"> <li>• Employees in Plan 87 hired before 1/1/10 pay 5% of salary</li> <li>• Employees hired on or after 1/1/10 elect to either enter Plan 87 and pay 6% of salary or enter Plan 10</li> </ul>
FOP Lodge No. 5 (Sheriff's Office and Register of Wills)	372	Three-year contract effective July 1, 2014 through June 30, 2017 awarded by arbitration panel on April 16, 2015	<ul style="list-style-type: none"> <li>• 2.5% increase for Fiscal Year 2015.</li> <li>• 3.0% increase for Fiscal Year 2016.</li> <li>• 3.25% increase for Fiscal Year 2017.</li> <li>• Register of Wills employees receive same wage package as AFSCME DC 33.</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Sheriff's Office:</u> <ul style="list-style-type: none"> <li>• Employees in Plan 87 hired before 1/1/12 pay 30% of normal cost</li> <li>• Employees hired on or after 1/1/12 elect to enter Plan 87 and pay 50% of normal cost or enter Plan 10</li> </ul> </li> <li>• <u>Register of Wills:</u> <ul style="list-style-type: none"> <li>• Employees in Plan 87 hired before 1/1/12 pay 30% of normal cost</li> <li>• Employees hired on or after 1/1/12 participate in Plan 10</li> </ul> </li> </ul>
IAFF Local 22	2,407	Four-year contract effective July 1, 2013 through June 30, 2017 awarded by arbitration panel on January 9, 2015	<ul style="list-style-type: none"> <li>• 3% pay increase for Fiscal Year 2014 and 2015.</li> <li>• 3.25% pay increase for Fiscal Year 2016.</li> <li>• 3.25 % pay increase for Fiscal Year 2017.</li> </ul>	<ul style="list-style-type: none"> <li>• Employees in Plan 87 hired before 7/2/12 pay 5% of salary</li> <li>• Employees hired on or after 7/2/12 elect to enter Plan 87 and pay 6% of salary or enter Plan 10</li> </ul>
AFSCME DC 33	7,372	Four-year contract term effective July 1, 2016 through June 30, 2020 (ratified on August 19, 2016)	<ul style="list-style-type: none"> <li>• 3.0% pay increase effective July 1, 2016.</li> <li>• 3.0% pay increase for Fiscal Year 2018</li> <li>• 2.5% pay increase for Fiscal Year 2019.</li> <li>• 3.0% pay increase for Fiscal Year 2020.</li> </ul>	<ul style="list-style-type: none"> <li>• Tiered contribution system for current employees under which employees who have higher salaries pay a higher percent of their salaries as contributions to the pension fund</li> <li>• Mandatory stacked hybrid plan for new hires under which employees receive a defined benefit pension for their first \$50,000 of earnings and a defined contribution pension for earnings above \$50,000</li> <li>• Plan 10 closed to new enrollment for members of DC33 but remains unchanged for other employee groups</li> <li>• Those employees in Plan 10 had 90 days from effective date to make an irrevocable election to opt into the stacked-hybrid</li> <li>• DROP (as defined below) interest rate decreases from 4.5% to the rate on the one year treasury effective January 1 of each year (currently 0.65%) for participants not currently enrolled or eligible to enroll</li> </ul>

<sup>(1)</sup> From data provided by the Mayor's Office of Labor Relations as of June 30, 2016.

<sup>(2)</sup> "Plan 87" and "Plan 10" referenced in this column are described in Table 19. Plan 10 is mandatory for newly-hired employees of the Register of Wills and was mandatory for employees covered by the Correctional Officers arbitration award who are now covered by the same pension provisions as other employees of AFSCME DC 33.

<u>Organization</u>	<u>Authorized Number of Full- Time Citywide Employees Represented<sup>(1)</sup></u>	<u>Status of Arbitration Award or Contract Settlement</u>	<u>Wage Increases</u>	<u>Pension Reforms<sup>(2)</sup></u>
AFSCME DC 33, Local 159 Correctional Officers	2,220	Three-year contract effective July 1, 2014 through June 30, 2017 awarded by arbitration panel on March 23, 2015	<ul style="list-style-type: none"> <li>• 3% pay increase for Fiscal Year 2015.</li> <li>• 3.25% pay increase for Fiscal Years 2016 and 2017.</li> <li>• \$600 equity adjustment to base wages on January 1, 2016.</li> </ul>	<ul style="list-style-type: none"> <li>• Tiered contribution system for current employees under which employees who have higher salaries pay a higher percent of their salaries as contributions to the pension fund</li> <li>• Mandatory stacked hybrid plan for new hires under which employees receive a defined benefit pension for their first \$50,000 of earnings and a defined contribution pension for earnings above \$50,000</li> <li>• Plan 10 closed to new enrollment for members of DC33 but remains unchanged for other employee groups</li> <li>• Those employees in Plan 10 had 90 days from effective date to make an irrevocable election to opt into the stacked-hybrid</li> <li>• DROP interest rate decreases from 4.5% to the rate on the one year treasury effective January 1 of each year (currently 0.65%) for participants not currently enrolled or eligible to enroll</li> </ul>
AFSCME DC 47	3,566	Contract term from July 1, 2009 through June 30, 2017 ratified on March 5, 2014	<ul style="list-style-type: none"> <li>• 3.5% pay increase effective April 4, 2014.</li> <li>• 2.5% pay increase for Fiscal Year 2016.</li> <li>• 3% pay increase for Fiscal Year 2017.</li> </ul>	<ul style="list-style-type: none"> <li>• Employees in Plan 87 hired before 3/5/14 pay 30% of normal cost plus an additional 0.5% of pay in 2015 and an additional 0.5% of pay in 2016 (for a total of an additional 1% of pay by 1/1/16)</li> <li>• Employees hired on or after 3/5/14 may elect to enter Plan 87 and pay an additional 1% of pay over what others in Plan 87 pay or enter Plan 10</li> <li>• DROP interest rate decreases from 4.5% to the rate on the one year treasury effective January 1 of each year (currently 0.65%) for participants not currently enrolled or eligible to enroll</li> </ul>
AFSCME DC 47 Local 810 Court Employees	477	Agreement ratified August 13, 2014 on economic terms for July 1, 2014 through June 30, 2016; a one-year agreement for July 1, 2016-June 30, 2017 was also ratified in Fiscal Year 2017	<ul style="list-style-type: none"> <li>• 2.5% pay increase for Fiscal Year 2015.</li> <li>• 2.5% pay increase for Fiscal Year 2016.</li> <li>• 3% pay increase for Fiscal Year 2017.</li> </ul>	<ul style="list-style-type: none"> <li>• Employees in Plan 87 hired before 3/5/14 pay 30% of normal cost plus an additional 0.5% of pay in 2015 and an additional 0.5% of pay in 2016 (for a total of an additional 1% of pay by 1/1/16)</li> <li>• Employees hired on or after 11/14/14 may elect to enter Plan 87 and pay an additional 1% of pay over what others in Plan 87 pay or enter Plan 10</li> <li>• DROP interest rate decreases from 4.5% to the rate on the one year treasury effective January 1 of each year (currently 0.65%) for participants not currently enrolled or eligible to enroll</li> </ul>
Exempt and Non- Represented Employees	3,752	Changes for exempt and non-represented employees	<ul style="list-style-type: none"> <li>• 2.5% pay increase effective October 1, 2012.</li> <li>• 3.5% exempt pay increase effective September 1, 2014.</li> <li>• 3.5% non-represented pay increase effective April 1, 2014.</li> <li>• 2.5% non-represented pay increase for Fiscal Year 2016.</li> </ul>	<ul style="list-style-type: none"> <li>• Employees in Plan 87 hired before 5/14/14 for non-represented civil service and before 11/14/14 for non-represented non-civil service pay 30% of normal cost plus an additional 0.5% of pay in 2015 and an additional 0.5% of pay in 2016 (for a total of an additional 1% of pay by 1/1/16)</li> <li>• Employees hired on or after dates above may elect to enter Plan 87 and pay an additional 1% of pay over what others in Plan 87 pay or enter Plan 10</li> <li>• DROP interest rate decreases from 4.5% to the rate on the one year treasury effective January 1 of each year (currently 0.65%) for participants not currently enrolled or eligible to enroll</li> </ul>

<sup>(1)</sup> From data provided by the Mayor's Office of Labor Relations as of June 30, 2016.

<sup>(2)</sup> "Plan 87" and "Plan 10" referenced in this column are described in Table 19. Plan 10 is mandatory for newly-hired employees of the Register of Wills and was mandatory for employees covered by the Correctional Officers arbitration award who are now covered by the same pension provisions as other employees of AFSCME DC 33.

Certain features of the 1987 Plan (“Plan 87”) and the 2010 Plan (“Plan 10”) are summarized below. Plan 87 is solely a defined benefit plan. Plan 10 is a “hybrid” plan that includes both a defined benefit and a defined contribution component. A more comprehensive summary of each plan is included as Appendix D of the July 1, 2016 Valuation (as defined herein). See “PENSION SYSTEM” below.

**Table 19**  
**Summary of Key Aspects of Plan 87 and Plan 10**

<b>Plan 87</b>	<b>Normal Retirement Eligibility</b>	<b>Average Final Compensation (“AFC”)</b>	<b>Defined Benefit – Retirement Benefits Multiplier</b>
Municipal (Plan Y)	Age 60 and 10 years of credited service <sup>(1)</sup>	Average of three highest calendar or anniversary years	<ul style="list-style-type: none"> <li>• (2.2% x AFC x years of service up to 10 years) plus (2.0% x AFC x numbers of years in excess of 10 years), subject to a maximum of 100% of AFC</li> </ul>
Police and Fire	Age 50 and 10 years of credited service <sup>(1)</sup>	Average of two highest calendar or anniversary years	<ul style="list-style-type: none"> <li>• (2.2% x AFC x years of service up to 20 years) plus (2.0% x AFC x numbers of years in excess of 20 years), subject to a maximum of 100% of AFC</li> </ul>
Elected Official (Plan L)	Age 55 and 10 years of credited service <sup>(2)</sup>	Average of three highest calendar or anniversary years	<ul style="list-style-type: none"> <li>• 3.5% x AFC x years of service, subject to a maximum of 100% of AFC</li> </ul>

<b>Plan 10</b>	<b>Normal Retirement Eligibility</b>	<b>Average Final Compensation (“AFC”)</b>	<b>Defined Benefit – Retirement Benefits Multiplier</b>
Municipal <sup>(3)</sup>	Age 60 and 10 years of credited service	Average of five highest calendar or anniversary years	<ul style="list-style-type: none"> <li>• 1.25% x AFC x years of service up to 20 years</li> </ul>
Police and Fire	Age 50 and 10 years of credited service	Average of five highest calendar or anniversary years	<ul style="list-style-type: none"> <li>• 1.75% x AFC x years of service up to 20 years</li> </ul> <p style="text-align: center;">-----</p>

#### **Defined Contribution**

- City matches employee contributions at a 50% rate, with the total City match not to exceed 1.5% of compensation for each year
- After five years of credited service, the full amount in the account is distributed to the employee when he or she separates from City service
- The right to the portion of the account attributable to City contributions does not vest until the completion of five years of credited service

<sup>(1)</sup> Five years of credited service for those who make additional contributions. See “PENSION SYSTEM – Pension System; Pension Board – Membership.”

<sup>(2)</sup> The lesser of two full terms or eight years of credited service for those elected officials who make additional contributions. See “PENSION SYSTEM – Pension System; Pension Board – Membership.”

<sup>(3)</sup> Under Plan 10 (Municipal), pension contributions freeze after 20 years. At such time and for each subsequent year, the employee’s pension payments remain fixed and the employee may no longer make pension contributions.

As part of the new collective bargaining agreement for AFSCME DC 33, the City and AFSCME DC 33 have agreed on a new, stacked hybrid pension plan for new municipal employees represented by AFSCME DC 33 (“Plan 16”). Plan 16 includes a defined benefit and defined contribution component. The defined benefit is applied to annual earnings up to \$50,000. Employees with annual salaries over \$50,000 may voluntarily participate in the defined contribution portion. The City will match a portion of an eligible employee’s voluntary contributions up to a cap of 1.5% of annual compensation. Current municipal employees represented by AFSCME DC 33 will pay a tiered employee pension contribution rate based on their pay range. Starting at an annual salary of \$45,000, the tiered structure is progressive so that higher earning employees will contribute at a higher rate.

## Purchase of Services

The following table shows the City’s major purchase of services, which represents one of the major classes of expenditures from the General Fund. Table 20 shows contracted costs of the City for Fiscal Years 2012-2016 and the budgeted amounts and current estimates for Fiscal Year 2017.

**Table 20**  
**Purchase of Services in the General Fund**  
**Fiscal Years 2012-2016 (Actual), and 2017 (Budget and Current Estimate)**  
**(Amounts in Millions of USD)<sup>(1), (8)</sup>**

	<b>Actual 2012</b>	<b>Actual 2013</b>	<b>Actual 2014</b>	<b>Actual 2015</b>	<b>Actual 2016</b>	<b>Adopted Budget 2017</b>	<b>Current Estimate 2017</b>
Human Services <sup>(2)</sup>	\$78.2	\$67.5	\$76.3	\$77.3	\$75.3	\$78.9	\$79.2
Public Health	63.0	63.0	60.5	59.4	64.9	66.9	70.6
Public Property <sup>(3)</sup>	139.5	139.5	140.7	148.8	155.0	159.4	159.8
Streets <sup>(4)</sup>	45.7	40.5	48.3	47.6	51.9	49.0	48.9
First Judicial District	24.1	16.5	15.8	17.1	-	-	-
Licenses & Inspections <sup>(5)</sup>	7.0	7.1	10.1	10.0	-	-	-
Supportive Housing <sup>(6)</sup>	30.4	34.2	36.9	36.6	-	-	-
Prisons	104.0	105.4	105.8	101.6	-	-	-
All Other <sup>(7)</sup>	268.9	284.1	293.2	312.2	475.1	542.8	541.1
<b>Total</b>	<b><u>\$760.8</u></b>	<b><u>\$757.8</u></b>	<b><u>\$787.6</u></b>	<b><u>\$810.6</u></b>	<b><u>\$822.2</u></b>	<b><u>\$896.9</u></b>	<b><u>\$899.6</u></b>

<sup>(1)</sup> Sources: For Fiscal Years 2012-2015, the City’s Supplemental Report of Revenues & Obligations for such Fiscal Years. For Fiscal Year 2016 and the current estimate for Fiscal Year 2017, the Proposed Fiscal Year 2018 Budget. For the budgeted amount for Fiscal Year 2017, the Second Quarter QCMR. The detailed breakdown of the other subcategories for Fiscal Years 2016 and 2017 will be available upon the release of the City’s Supplemental Report of Revenues & Obligations for such Fiscal Years.

<sup>(2)</sup> Includes payments for care of dependent and delinquent children.

<sup>(3)</sup> Includes payments for SEPTA, space rentals, and utilities.

<sup>(4)</sup> Includes solid waste disposal costs.

<sup>(5)</sup> Includes payments for demolition in Fiscal Year 2012.

<sup>(6)</sup> Includes homeless shelter and boarding home payments.

<sup>(7)</sup> Includes the Convention Center subsidy and payments for vehicle leasing, among other things.

<sup>(8)</sup> Figures may not sum due to rounding.

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## City Payments to School District

In each Fiscal Year since Fiscal Year 1996, the City has made an annual grant of at least \$15 million to the School District. Pursuant to negotiations with the Commonwealth to address the School District's then current and future educational and fiscal situation, the Mayor and City Council agreed to provide the School District with an additional \$20 million annual grant beginning in Fiscal Year 2002. The following table presents the City's payments to the School District from the General Fund for Fiscal Years 2012-2016 and the budgeted amount and current estimate for Fiscal Year 2017.

**Table 21**  
**City Payments to School District**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Budget and Current Estimate)**  
**(Amounts in Millions of USD)<sup>(1)</sup>**

	<b>Actual 2012</b>	<b>Actual 2013<sup>(2)</sup></b>	<b>Actual 2014<sup>(3)</sup></b>	<b>Actual 2015</b>	<b>Actual 2016</b>	<b>Budget and Current Estimate 2017</b>
City Payments to School District	\$48.9	\$68.9	\$114.1	\$69.1	\$104.2	\$104.3

<sup>(1)</sup> Sources: For Fiscal Years 2012-2016, the City's CAFRs for such Fiscal Years. For Fiscal Year 2017, the Fiscal Year 2017 Adopted Budget and the Proposed Twenty-Sixth Five-Year Plan.

<sup>(2)</sup> The City's contribution included a budgeted contribution of \$48.9 million and an additional contribution of \$20 million, which was derived from an increase in the Real Estate Tax rate.

<sup>(3)</sup> In Fiscal Year 2014, the City's contribution included a budgeted contribution of \$69.1 million and an additional \$45.1 million one-time contribution that was passed through from the Commonwealth.

In Fiscal Year 2014, the City also issued, through PAID, \$27.3 million of bonds for the benefit of the School District. In Fiscal Year 2015, the City issued, through PAID, \$57.5 million of bonds for the benefit of the School District and to refund the bonds issued in Fiscal Year 2014. The bond proceeds paid to the School District are not subject to the maintenance of effort described below.

The City's adopted Fiscal Year 2016 budget included a property tax increase and parking tax increase to benefit the School District in amounts of \$25 million and \$10 million, respectively, which are included in the \$104.2 million for Fiscal Year 2016 and the \$104.3 million for Fiscal Year 2017 reflected in Table 21 above. Both the \$25 million and the \$10 million are City revenues collected by the City and then granted to the School District. Each year in the Proposed Twenty-Sixth Five-Year Plan reflects these increases in tax revenues, as well as the related expense of the grant to the School District; therefore, this does not impact the City's General Fund balance.

Section 696 of the School Code imposes on the City a maintenance of effort obligation with respect to the School District. For so long as the School District remains subject to a declaration of "distress" by the Secretary of Education, the City is obligated to continue (i) paying over to the School District each year an amount at least equal to the amount paid over to the School District in the previous year and (ii) authorizing for the School District tax rates at least equal to the rates of taxation authorized by the City for the School District in the previous year. The School District was declared distressed effective December 22, 2001, and such declaration continues to be in effect. See "THE GOVERNMENT OF THE CITY OF PHILADELPHIA – Local Government Agencies – *Mayoral-Appointed or Nominated Agencies* – The School District."



For a discussion of changes and proposed changes in the funding provided by the City to the School District, see “REVENUES OF THE CITY – Sales and Use Tax.” For a discussion of the transition to AVI, see “REVENUES OF THE CITY – Real Property Taxes Assessment and Collection.”

### City Payments to SEPTA

SEPTA operates a public transportation system within the City and Bucks, Chester, Delaware, and Montgomery counties. SEPTA’s operating budget is supported by federal, Commonwealth, and local subsidies, including payments from the City. The following table presents the City’s payments to SEPTA from the General Fund for Fiscal Years 2012-2016 and the budgeted amount and current estimate for Fiscal Year 2017.

**Table 22**  
**City Payments to SEPTA**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Budget and Current Estimate)**  
**(Amounts in Millions of USD)<sup>(1)</sup>**

	<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Budget and Current Estimate</b>
	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
City Payment to SEPTA	\$66.4	\$65.2	\$66.0	\$70.4	\$74.2	\$79.7

<sup>(1)</sup> Sources: For Fiscal Years 2012-2016, the City’s CAFRs for such Fiscal Years. For Fiscal Year 2017, the Fiscal Year 2017 Adopted Budget and the Proposed Twenty-Sixth Five-Year Plan.

The City budgets operating subsidies each Fiscal Year to match the estimated operating subsidies of the Commonwealth under Act 89. The state operating subsidy is funded through the Pennsylvania Public Transportation Trust Fund as created by Act 44 of 2007, amended by Act 89 of 2013. The local match requirement for Fiscal Years 2017-2022 has been calculated to match state operating subsidies. In addition, local matching funds must be appropriated each Fiscal Year in which state funds are received in order for SEPTA to receive the full allocation of state funds. The Proposed Twenty-Sixth Five-Year Plan projects annual operating subsidy payments to SEPTA from the City will increase to \$99.7 million by Fiscal Year 2022. For more information on SEPTA, see APPENDIX B – “TRANSPORTATION – Southeastern Pennsylvania Transportation Authority (SEPTA).”

### City Payments to Convention Center Authority

In connection with the financing of the expansion to the Pennsylvania Convention Center and the refinancing of debt for the original Pennsylvania Convention Center construction, the Commonwealth, the City, and the Convention Center Authority entered into an operating agreement in 2010 (the “Convention Center Operating Agreement”). The Convention Center Operating Agreement provides for the operation of the Convention Center by the Convention Center Authority and includes an annual service fee of \$15,000,000 from the City to the Convention Center Authority in each Fiscal Year through Fiscal Year 2040.

As authorized by ordinance, the City has agreed to pay to the Convention Center Authority on a monthly basis a certain percentage of hotel room taxes and hospitality promotion taxes collected during the term of the Convention Center Operating Agreement. The remaining percentages of such taxes are paid to the City’s tourism and marketing agencies. The General Fund does not retain any portion of the proceeds of the hotel room rental tax or the hospitality promotion tax.

## PENSION SYSTEM

*The amounts and percentages set forth under this heading relating to the City's pension system, including, for example, actuarial liabilities and funded ratios, are based upon numerous demographic and economic assumptions, including the investment return rates, inflation rates, salary increase rates, post-retirement mortality, active member mortality, rates of retirement, etc. The reader is cautioned to review and carefully consider the assumptions set forth in the documents that are cited as the sources for the information in this section. In addition, the reader is cautioned that such sources and the underlying assumptions speak as of their respective dates, and are subject to changes, any of which could cause a significant change in the unfunded actuarial liability.*

### Overview

The City faces significant ongoing financial challenges in meeting its pension obligations, including an unfunded actuarial liability ("UAL") of approximately \$6.1 billion as of July 1, 2016. In Fiscal Year 2016, the City's contribution to the Municipal Pension Fund was approximately \$660.2 million, of which the General Fund's share (including the Commonwealth contribution) was \$512.2 million. See Table 29. The City's aggregate pension costs (consisting of payments to the Municipal Pension Fund and debt service on the Pension Bonds (as defined herein)) have increased from approximately 10.15% of the City's General Fund budget to approximately 13.93% of the General Fund budget from Fiscal Years 2007 to 2016. See Table 31. As reflected in the Funded Ratio chart following Table 28, the funded ratio of the Municipal Pension Plan was 50.0% on July 1, 1997 (at which time the UAL was approximately \$2.7 billion), and was 44.8% on July 1, 2016.

The decline in the Municipal Pension System's funded status and the net growth of the unfunded liability is the product of a number of factors, including the following:

- The declines in the equity markets in 2000-2001 and in 2008-2009. See Table 24 and the Funded Ratio chart below Table 28.
- A reduction in the assumed rate of return, from 9.00% in 2004 to 7.70% effective July 1, 2016. Although the gradual reductions in the assumed rates of return reflected in Table 24 are considered a prudent response to experience studies, by reducing the assumed return in the measurement of the actuarial liabilities, it serves to increase the UAL from what it otherwise would have been.
- Adopting more conservative mortality rates in response to experience studies performed by the Municipal Pension Plan actuary.
- The Municipal Pension Plan is a mature system, which means the number of members making contributions to the Municipal Pension Plan is less than the number of retirees and other beneficiaries receiving payments from the Municipal Pension Plan, by approximately 9,500. As a result, the aggregate of member contributions and the City's contributions are less than the amount of benefits and refunds payable in any particular year, with the result that investment income must be relied upon to meet such difference before such income can contribute to an increase in the Municipal Pension System's assets growth. See Table 26.
- The determination by the City, commencing in Fiscal Year 2005, to fund in accordance with the "minimum municipal obligation" ("MMO"), as permitted and as defined by Pennsylvania law, in lieu of the City Funding Policy (as defined herein), resulted in the City contributing

less than otherwise would have been contributed. See below, “– Funding Requirements; Funding Standards.”

- Revising, in Fiscal Year 2009, in accordance with Pennsylvania law, the period over which the UAL was being amortized, such that the UAL as of July 1, 2009 was “fresh started” to be amortized over a 30 year period ending June 30, 2039. In addition, changes were made to the periods over which actuarial gains and losses and assumption changes were amortized under Pennsylvania law. See “UAL and its Calculation – Actuarial Valuations.”

The City has taken a number of steps to address the funding of the Municipal Pension Plan, including the following:

- Reducing the assumed rate of return on a gradual and consistent basis. See Table 24 below.
- Adopting more conservative mortality rates in response to experience studies performed by the Municipal Pension Plan actuary.
- In conjunction with the revisions to the amortization periods that occurred in Fiscal Year 2009, changing from a level percent of pay amortization schedule to a level dollar amount schedule. This results in producing payments that ensure that a portion of principal on the UAL is paid each year.
- Funding consistently an amount greater than the MMO (subject to the authorized deferrals for Fiscal Years 2010 and 2011 described below).
- Negotiating collective bargaining agreements by which additional contributions are being made (and will be made) by certain current (and future) members and by which benefits will be capped for certain future members of the Municipal Pension Plan. See Table 18.
- Securing additional funding, including funds required to be deposited by the City to the Municipal Pension Fund from its share of future sales tax revenue.

This “Overview” is intended to highlight certain of the principal factors that led to the pension system’s current funded status, and significant steps the City and the Pension Board have taken to address the underfunding. The reader is cautioned to review with care the more detailed information presented below under this caption, “PENSION SYSTEM.”

### **Pension System; Pension Board**

The City maintains two defined-benefit pension programs: (i) the Municipal Pension Plan, a multi-employer plan, which provides benefits to police officers, firefighters, non-uniformed employees, and non-represented appointed and elected officials, and (ii) the PGW Pension Plan, a single employer plan, which provides benefits to PGW employees. The Municipal Pension Plan is administered through 18 separate benefit structures, the funding for which is accounted for on a consolidated basis by the Municipal Pension Fund. The 18 benefit structures establish for their respective members different contribution levels, retirement ages, etc., but all assets are available to pay benefits to all members of the Municipal Pension Plan. The Municipal Pension Plan is a mature plan, initially established in 1915, with investment assets that totaled approximately \$4.4 billion as of June 30, 2016. The Municipal Pension Plan has approximately 28,300 members who make contributions to the plan, and provides benefits to approximately 37,800 retirees and other beneficiaries.

PGW is principally a gas distribution facility owned by the City. For accounting presentation purposes, PGW is a component unit of the City and follows accounting rules as they apply to proprietary fund-type activities. The PGW Pension Plan is funded with contributions by PGW to such plan, which are treated as an operating expense of PGW, and such plan is not otherwise addressed under the caption "PENSION SYSTEM." See "PGW PENSION PLAN" below.

Contributions are made by the City to the Municipal Pension Fund from: (i) the City's General Fund; (ii) funds that are received by the City from the Commonwealth for deposit into the Municipal Pension Fund; and (iii) various City inter-fund transfers, representing amounts contributed, or reimbursed, to the City's General Fund for pensions from the City's Water Fund, Aviation Fund, and certain other City funds or agencies. See Table 29. In addition to such City (employer) contribution, the other principal additions to the Municipal Pension Fund are: (i) member (employee) contributions; (ii) interest and dividend income; (iii) net appreciation in asset values; and (iv) net realized gains on the sale of investments. See Table 26 below. An additional source of expected funding is that portion of the 1% Sales Tax rate increase that is required under Pennsylvania law to be deposited to the Municipal Pension Fund. See "REVENUES OF THE CITY – Sales and Use Tax."

The City of Philadelphia Board of Pensions and Retirement (the "Pension Board") was established by the City Charter to administer "a comprehensive, fair and actuarially sound pension and retirement system covering all officers and employees of the City." The City Charter provides that the Pension Board "shall consist of the Director of Finance, who shall be its chairman, the Managing Director, the City Controller, the City Solicitor, the Personnel Director and four other persons who shall be elected to serve on the Board by the employees in the civil service in such manner as shall be determined by the Board." In addition, there is one non-voting member on the Pension Board, who is appointed by the President of City Council. An Executive Director, together with a staff of 73 personnel, administers the day-to-day activities of the retirement system, providing services to approximately 66,200 members.

The Municipal Pension Plan, the Municipal Pension Fund, and the Pension Board are for convenience sometimes collectively referred to under this caption as the "Municipal Retirement System."

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Membership. The following table shows the membership totals for the Municipal Pension Plan, as of July 1, 2016 and as compared to July 1, 2015.

**Table 23**  
**Municipal Pension Plan – Membership Totals**

	<u>July 1, 2016</u>	<u>July 1, 2015</u>	<u>% Change</u>
Actives	28,308	27,951	1.3%
Terminated Vesteds	1,248	1,334	-6.4%
Disabled	4,005	4,016	-0.3%
Retirees	22,412	22,245	0.8%
Beneficiaries	8,567	8,566	0.0%
Deferred Retirement Option Plan (“DROP”)	<u>1,614</u>	<u>1,784</u>	-9.5%
Total City Members	66,154	65,896	0.4%
Annual Salaries	\$1,676,548,962	\$1,597,848,869	4.9%
Average Salary per Active Member	\$59,225	\$57,166	3.6%
Annual Retirement Allowances	\$741,828,339	\$719,580,951	3.1%
Average Retirement Allowances	\$21,205	\$20,662	2.6%

Source: July 1, 2016 Valuation.

As shown in Table 23, total membership in the Municipal Pension Plan increased by 0.4%, or from 65,896 to 66,154 members, from July 1, 2015 to July 1, 2016, including an increase of 1.3% in active members from 27,951 to 28,308 (who were contributing to the Municipal Pension Fund). Of the 66,154 members, 37,846 were retirees, beneficiaries, disabled, and other members (who were withdrawing from, or not contributing to, the Municipal Pension Fund).

Subject to the exceptions otherwise described in this paragraph, employees and officials become vested in the Municipal Pension Plan upon the completion of ten years of service. Employees and appointed officials who hold positions that are exempt from civil service and who are not entitled to be represented by a union, and who were hired before January 13, 1999, may elect accelerated vesting after five years of service in return for payment of a higher employee contribution than if the vesting period were ten years. Such employees and officials hired after January 13, 1999, become vested after five years of service and pay a higher employee contribution than if the vesting period were ten years. Elected officials become vested in the Municipal Pension Plan once they complete service equal to the lesser of two full terms in their elected office or eight years and pay a higher contribution than if the vesting period were ten years. Elected officials pay an additional employee contribution for the full cost of the additional benefits they may receive over those of general municipal employees. Upon retirement, employees and officials may receive up to 100% of their average final compensation depending upon their years of credited service and the plan in which they participate.

All City employees participate in the U.S. Social Security retirement system except for uniformed Police and uniformed Fire employees.

Certain membership information relating to the City’s municipal retirement system provided by the Pension Board is set forth in Appendix A to the July 1, 2016 Actuarial Valuation Report (the “July 1, 2016 Valuation”) and includes as of July 1, 2016, among other information, active and non-active

member data by plan, age/service distribution for active participants and average salary for all plans, and age and benefit distributions for non-active member data.

### **Funding Requirements; Funding Standards**

City Charter. The City Charter establishes the “actuarially sound” standard quoted above. Case law has interpreted “actuarially sound” as used in the City Charter to require the funding of two components: (i) “normal cost” (as defined below) and (ii) interest on the UAL. (*Dombrowski v. City of Philadelphia*, 431 Pa. 199, 245 A.2d 238 (1968)).

Pennsylvania Law. The Municipal Pension Plan Funding Standard and Recovery Act (Pa. P.L. 1005, No. 205 (1984)) (“Act 205”), applies to all municipal pension plans in Pennsylvania, “[n]otwithstanding any provision of law, municipal ordinance, municipal resolution, municipal charter, pension plan agreement or pension plan contract to the contrary . . . .” Act 205 provides that the annual financial requirements of the Municipal Pension Plan are: (i) the normal cost; (ii) administrative expense requirements; and (iii) an amortization contribution requirement. In addition, Act 205 requires that the MMO be payable to the Municipal Pension Fund from City revenues, and that the City shall provide for the full amount of the MMO in its annual budget. The MMO is defined as “the financial requirements of the pension plan reduced by . . . the amount of any member contributions anticipated as receivable for the following year.” Act 205 further provides that the City has a “duty to fund its municipal pension plan,” and the failure to provide for the MMO in its budget, or to pay the full amount of the MMO, may be remedied by the institution of legal proceedings for mandamus.

In accordance with Pennsylvania law and Act 205, the City uses the entry age normal actuarial funding method, whereby “normal cost” (associated with active employees only) is the present value of the benefits that the City expects to become payable in the future distributed evenly as a percent of expected payroll from the age of first entry into the plan to the expected age at retirement. The City’s share of such normal cost (to which the City adds the Plan’s administrative expenses) is reduced by member contributions. The term “level” means that the contribution rate for the normal cost, expressed as a percentage of active member payroll, is expected to remain relatively level over time.

The City has budgeted and paid at least the full MMO amount since such requirement was established, and more specifically, prior to Fiscal Year 2005 the City had been contributing to the Municipal Pension Plan the greater amount as calculated pursuant to the City Funding Policy which was implemented before Act 205 was effective, as described below. Payment of the MMO is a condition for receipt of the Commonwealth contribution to the Municipal Pension Fund. See Table 29.

Act 205 was amended in 2009 by Pa. P.L. 396, No. 44 (“Act 44”) to authorize the City to: (i) “fresh start” the amortization of the UAL as of July 1, 2009 by a level annual dollar amount over 30 years ending June 30, 2039; and (ii) revise the amortization periods for actuarial gains and losses and assumption changes in accordance with Act 44, as described below under “UAL and its Calculation – Actuarial Valuations.” In addition, Act 44 authorized the City to defer, and the City did defer, \$150 million of the MMO otherwise payable in Fiscal Year 2010, and \$80 million of the MMO otherwise payable in Fiscal Year 2011, subject to repayment of the deferred amounts by June 30, 2014. The City repaid the aggregate deferred amount of \$230 million, together with interest at the then-assumed interest rate of 8.25%, in Fiscal Year 2013. See Table 29. Because the final amortization date is fixed, if all actuarial assumptions are achieved, the unfunded liability would decline to zero as of the final amortization date. To the extent future experience differs from the assumptions used to establish the 30-year fixed amortization payment schedule, new amortization bases attributable to a particular year’s difference would be established and amortized over their own 20-year schedule.

GASB; City Funding Policy. Governmental Accounting Standards Board (“GASB”) Statement No. 27, “Accounting for Pensions by State and Local Governmental Employers” (“GASB 27”), applied to the City for Fiscal Years beginning prior to July 1, 2014. For the Fiscal Year beginning July 1, 2014, GASB Statement No. 68 (“GASB 68”), which amends GASB 27 in several significant respects, applies. GASB 27 defined an “annual required contribution” (“ARC”) as that amount sufficient to pay (i) the normal cost and (ii) the amortization of UAL, and provides that the maximum acceptable amortization period is 30 years (for the initial 10 years of implementation, 1996-2006, a 40-year amortization period was permitted). GASB 27 did not establish funding requirements for the City but rather was an accounting and financial reporting standard. GASB 68 does not require the calculation of an ARC but does require the City to include as a liability on its balance sheet the City’s “net pension liability,” as defined by GASB 68. The City has been funding the Municipal Pension Fund since Fiscal Year 2003 based on the MMO, including the deferral permitted by Act 44. See Table 29 below.

The City, prior to Fiscal Year 2005, had been funding the Municipal Pension Fund in accordance with what the City referred to as the “City Funding Policy.” That reference was used and continues to be used in the Actuarial Reports. Under the City Funding Policy, the UAL as of July 1, 1985 was to be amortized over 34 years ending June 30, 2019, with payments increasing at 3.3% per year, the assumed payroll growth. Other changes in the actuarial liability were amortized in level-dollar payments over various periods as prescribed in Act 205. In 1999, the City issued pension funding bonds, the proceeds of which were deposited directly into the Municipal Pension Fund to pay down its UAL. See “– Annual Contributions – Pension Bonds” below.

Revenue Recognition Policy. The City follows a policy (the “Revenue Recognition Policy”) to contribute each year to the Municipal Pension Fund an amount in excess of the MMO. The determination for such additional funding is based on not including (i) the portion of the amounts generated by the increase in the Sales Tax rate that became effective on July 1, 2014 and are required by Act 205 to be deposited to the Municipal Pension Fund (see “Revenues of the City – Sales and Use Tax”), and (ii) contributions to be made by City employees that are under Plan 16 (described above in the text that immediately follows Table 19) in the actuarial asset value when determining the annual contribution obligation.

The amounts projected by the City in the Proposed Twenty-Sixth Five Year Plan to be deposited from Sales Tax revenue into the Municipal Pension Fund, for the six Fiscal Years 2017-2022, respectively, are as follows: \$18.3 million; \$24.0 million; \$44.6 million; \$49.9 million; \$54.9 million; and \$59.8 million. (These revenue estimates reflect updates made since the data cutoff for performing the July 1, 2016 Valuation. Compare to the amounts under “Sales Tax Contribution” in the first table under the subsection “Actuarial Projections of Funded Status.”)

## **UAL and its Calculation**

According to the July 1, 2016 Valuation, the funded ratio (the valuation of assets available for benefits to total actuarial liability) of the Municipal Pension Fund as of July 1, 2016 was 44.8% and the Municipal Pension Fund had an unfunded actuarial liability (“UAL”) of \$6.089 billion. The UAL is the difference between total actuarial liability (\$11.025 billion as of July 1, 2016) and the actuarial value of assets (\$4.936 billion as of July 1, 2016).

Key Actuarial Assumptions. In accordance with Act 205, the actuarial assumptions must be, in the judgment of both Cheiron (the independent consulting actuary for the Municipal Pension Fund) and the City, “the best available estimate of future occurrences in the case of each assumption.” The assumed investment return rate used in the July 1, 2016 Valuation was 7.70% a year (which includes an inflation assumption of 2.75%), net of administrative expenses, compounded annually. For the prior actuarial

valuation, the assumed investment return rate was 7.75%. See Table 24 for the assumed rates of return for Fiscal Years 2007 to 2016. The 7.75% was used to establish the MMO payment for Fiscal Year 2017; 7.70% will be used to establish the MMO payment for Fiscal Year 2018.

Other key actuarial assumptions in the July 1, 2016 Valuation include the following: (i) total annual payroll growth of 3.30%, (ii) annual administrative expenses assumed to increase 3.30% per year, (iii) to recognize the expense of the benefits payable under the Pension Adjustment Fund, actuarial liabilities were increased by 0.54%, based on the statistical average expected value of the benefits, (iv) a vested employee who terminates will elect a pension deferred to service retirement age so long as their age plus years of service at termination are greater than or equal to 55 (45 for police and fire employees), (v) for municipal and elected members, 70% of all disabilities are ordinary and 30% are service-connected, and (vi) for police and fire members, 50% of all disabilities are ordinary and 50% are service-connected.

“Smoothing Methodology”. The Municipal Retirement System uses an actuarial value of assets to calculate its annual pension contribution, using an asset smoothing method to dampen the volatility in asset values that could occur because of fluctuations in market conditions. The Municipal Retirement System used a five-year smoothing prior to Fiscal Year 2009, and beginning with Fiscal Year 2009 began employing a ten-year smoothing. Using the ten-year smoothing methodology, investment returns in excess or below the assumed rate are prospectively distributed in equal amounts over a ten-year period, subject to the requirement that the actuarial value of assets will be adjusted, if necessary, to ensure that the actuarial value of assets will never be less than 80% of the market value of the assets, nor greater than 120% of the market value of the assets. The actuarial value of assets as of July 1, 2016, was approximately 113.5% of the market value of the assets.

Actuarial Valuations. The Pension Board engages an independent consulting actuary (currently Cheiron) to prepare annually an actuarial valuation report. Act 205, as amended by Act 44, establishes certain parameters for the actuarial valuation report, including: (i) use of the entry age normal actuarial cost method; (ii) that the report shall contain: (a) actuarial exhibits, financial exhibits, and demographic exhibits; (b) an exhibit of normal costs expressed as a percentage of the future covered payroll of the active membership in the Municipal Pension Plan; and (c) an exhibit of the actuarial liability of the Municipal Pension Plan; and (iii) that changes in the actuarial liability be amortized in level-dollar payments as follows: (a) actuarial gains and losses be amortized over 20 years beginning July 1, 2009 (prior to July 1, 2009, gains and losses were amortized over 15 years); (b) assumption changes be amortized over 15 years beginning July 1, 2010 (prior to July 1, 2010, assumption changes were amortized over 20 years); (c) plan changes for active members be amortized over 10 years; (d) plan changes for inactive members be amortized over one year; and (e) plan changes mandated by the Commonwealth be amortized over 20 years.

Act 205 further requires that an experience study be conducted at least every four years, and cover the five-year period ending as of the end of the plan year preceding the plan year for which the actuarial valuation report is filed. The most recent Experience Study was prepared by Cheiron in March 2014 for the period July 1, 2008 – June 30, 2013. The changes to the actuarial and demographic assumptions that were adopted by the Pension Board in response to such Experience Study have been employed since the July 1, 2014 Valuation. The principal revisions included marginal changes in salary growth rates; changes in retirement assumptions (increase for those under the pension plan the City established in 1967; decrease for those under the pension plan the City established in 1987); increase in the expected disability rates for police and fire employees; and changes in mortality assumptions to fully reflect the most recent experience. Details of these assumption changes and the experience of the Municipal Pension Plan can be found in the *City of Philadelphia Municipal Retirement System*



*Experience Study Results and Recommendations For the period covering July 1, 2008 – June 30, 2013, available at the Investor Information section of the City’s Investor Website.*

### **Pension Adjustment Fund**

Pursuant to § 22-311 of the Philadelphia Code, the City directed the Pension Board to establish a Pension Adjustment Fund (“PAF”) on July 1, 1999, and further directed the Pension Board to determine, effective June 30, 2000 and each Fiscal Year thereafter, whether there are “excess earnings” as defined available to be credited to the PAF. The Pension Board’s determination is to be based upon the actuary’s certification using the “adjusted market value of assets valuation method” as defined in § 22-311. Although the portion of the assets attributed to the PAF is not segregated from the assets of the Municipal Pension Fund, the Philadelphia Code provides that the “purpose of the Pension Adjustment Fund is for the distribution of benefits as determined by the Board for retirees, beneficiaries or survivors [and] [t]he Board shall make timely, regular and sufficient distributions from the Pension Adjustment Fund in order to maximize the benefits of retirees, beneficiaries or survivors.” Distributions are to be made “without delay” no later than six months after the end of each Fiscal Year. The PAF was established, in part, because the Municipal Retirement System does not provide annual cost-of-living increases to retirees or beneficiaries. At the time the PAF was established, distributions from the PAF were subject to the restriction that the actuarial funded ratio using the “adjusted market value of assets” be not less than such ratio as of July 1, 1999 (76.7%). That restriction was deleted in 2007 by an ordinance adopted by City Council; the Mayor vetoed such ordinance, and City Council overrode such veto.

The amount to be credited to the PAF is 50% of the “excess earnings” that are between one percent (1%) and six percent (6%) above the actuarial assumed investment rate. Earnings in excess of six percent (6%) of the actuarial assumed investment rate remain in the Municipal Pension Fund. Although the Pension Board utilizes a ten-year smoothing methodology, as explained above, for the actuarial valuation of assets for funding and determination of the MMO, § 22-311 provides for a five-year smoothing to determine the amount to be credited to the PAF. The actuary determined that for the Fiscal Year ended June 30, 2016, there were no “excess earnings” as defined to be credited to the PAF. The Pension Board transfers to the PAF the full amount calculated by the actuary as being available in any year for transfer within six months of the Pension Board designating the amount to be transferred.

Transfers to the PAF and the resultant additional distributions to retirees result in removing assets from the Municipal Pension Plan. To account for the possibility of such transfers, and as an alternative to adjusting the assumed investment return rate to reflect such possibility, the actuary applies a load of 0.54% to the calculated actuarial liability as part of the funding requirement and MMO. Such calculation was utilized for the first time in the July 1, 2013 actuarial valuation.

The market value of assets as used under this caption, “PENSION SYSTEM,” represents the value of the assets if they were liquidated on the valuation date and this value includes the PAF (except as otherwise indicated in certain tables), although the PAF is not available for funding purposes. The actuarial value of assets does not include the PAF.

## Rates of Return; Asset Values; Changes in Plan Net Position

Rates of Return. The following table sets forth for the Fiscal Years 2007-2016 the market value of assets internal rate of return and actuarial value of assets internal rate of return experienced by the Municipal Pension Fund, and the assumed rate of return. The 5-year and 10-year annual average returns as of June 30, 2016, were 4.54% and 4.27%, respectively, on a market value basis.

**Table 24**  
**Municipal Pension Fund**  
**Annual Rates of Return**

<u>Year Ending June 30,</u>	<u>Market Value</u>	<u>Actuarial Value</u> <sup>(1)</sup>	<u>Assumed Rate of Return</u>
2007	17.0%	10.7%	8.75%
2008	-4.5%	10.1%	8.75%
2009	-19.9%	-9.3%	8.75%
2010	13.8%	12.9%	8.25%
2011	19.4%	9.9%	8.15%
2012	0.2%	2.4%	8.10%
2013	10.9%	5.1%	7.95%
2014	15.7%	4.8%	7.85%
2015	0.3%	5.8%	7.80%
2016	-3.2%	4.5%	7.75%

Source: July 1, 2016 Valuation.

<sup>(1)</sup> Net of PAF. See "Pension Adjustment Fund" above. The actuarial values for 2007-2008 reflect a five-year smoothing; for 2009-2016, a ten-year smoothing.

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Asset Values. The following table sets forth as of the July 1 actuarial valuation date for the years 2007-2016 the actuarial and market values of assets in the Municipal Pension Fund and the actuarial value as a percentage of market value.

**Table 25**  
**Actuarial Value of Assets vs. Market Value of Net Assets**  
**(Dollar Amounts in Millions of USD)**

Actuarial Valuation Date (July 1)	Actuarial Value of Assets <sup>(1)</sup>	Market Value of Net Assets <sup>(1)</sup>	Actuarial Value as a Percentage of Market Value
2007	\$4,421.7	\$4,850.9	91.2%
2008	\$4,623.6	\$4,383.5	105.5%
2009	\$4,042.1	\$3,368.4	120.0%
2010 <sup>(2)</sup>	\$4,380.9	\$3,650.7	120.0%
2011 <sup>(2)</sup>	\$4,719.1	\$4,259.2	110.8%
2012 <sup>(2)</sup>	\$4,716.8	\$4,151.8	113.6%
2013	\$4,799.3	\$4,444.1	108.0%
2014	\$4,814.9	\$4,854.3	99.2%
2015	\$4,863.4	\$4,636.1	104.9%
2016	\$4,936.0	\$4,350.8	113.5%

Source: July 1, 2016 Valuation for Actuarial Value of Assets; 2007-2016 Actuarial Reports for Market Value of Net Assets.

- <sup>(1)</sup> For purposes of this table, the Market Value of Net Assets excludes the PAF, which as of June 30, 2016 equaled \$7.223 million. The Actuarial Value of Assets excludes that portion of the Municipal Pension Fund that is allocated to the PAF. The actuarial values for 2007-2008 reflect a five-year smoothing; for 2009-2016, a ten-year smoothing.
- <sup>(2)</sup> The July 1, 2010 actuarial and market values of assets include the \$150 million deferred contribution from Fiscal Year 2010, and the July 1, 2011 and July 1, 2012 actuarial and market values of assets include the total deferred contribution of \$230 million. See Table 29 below.

Changes in Plan Net Position. The following table sets forth for the Fiscal Years 2012-2016, the additions, including employee (member) contributions, City contributions (including contributions from the Commonwealth), investment income and miscellaneous income, and deductions, including benefit payments and administration expenses, for the Municipal Pension Fund. Debt service payments on pension funding bonds (as described below at “Annual Contributions – Pension Bonds”) are made from the City’s General Fund, Water Operating Fund, and Aviation Operating Fund, but are not made from the Municipal Pension Fund, and therefore are not included in Table 26. In those years in which the investment income is less than anticipated, the Municipal Pension Fund may experience negative changes (total deductions greater than total additions), which, as the table reflects, did occur in Fiscal Year 2012. Furthermore, if unrealized gains are excluded from Table 26, resulting in a comparison of cash actually received against actual cash outlays, it results in a negative cash flow in each year, which is typical of a mature retirement system.

Contributions from the Commonwealth are provided pursuant to the provisions of Act 205. Any such contributions are required to be used to defray the cost of the City’s pension system. The amounts contributed by the Commonwealth for each of the last ten Fiscal Years are set forth in Table 29 below. The contributions from the Commonwealth are capped pursuant to Act 205, which provides that “[n]o municipality shall be entitled to receive an allocation of general municipal pension system State aid in an amount greater than 25% of the total amount of the general municipal pension system State aid available.”

Employee (member) contribution amounts reflect contribution rates as a percent of pay, which for the plan year beginning July 1, 2017, vary from 5.00% to 6.00% for police and fire employees, and from 3.10% to 7.00% for municipal employees excluding elected officials. These rates include the increases in contributions for certain municipal employees and elected officials currently in Plans 67, 87 and 87 Prime and elected officials as required by legislation. This legislation called for employees in these groups to pay an additional 0.5% of compensation from January 1, 2015 to December 31, 2015 and an additional 1.0% from January 1, 2016 onwards. New employees in these groups entering Plan 87 Municipal prime will pay an additional 1.0% of compensation which is included in the table below.

**Table 26**  
**Changes in Net Position of the Municipal Pension Fund**  
**Fiscal Years 2012-2016**  
**(Amounts in Thousands of USD)**

	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
Beginning Net Assets (Market Value) <sup>(1)</sup>	\$4,030,216	\$3,922,817	\$4,445,224	\$4,916,705	\$4,674,252
Additions					
- Member Contributions	49,979	49,614	53,722	58,658	67,055
- City Contributions <sup>(2)</sup>	556,031	781,823	553,179	577,195	660,247
- Investment Income <sup>(3)</sup>	13,297	442,667	677,380	11,790	(147,424)
- Miscellaneous Income <sup>(4)</sup>	<u>1,224</u>	<u>3,134</u>	<u>4,089</u>	<u>2,049</u>	<u>1,742</u>
Total	\$620,531	\$1,277,238	\$1,288,370	\$649,692	\$581,620
Deductions					
- Benefits and Refunds	(712,684)	(746,490)	(808,597)	(881,666)	(889,343)
- Administration	<u>(15,246)<sup>(5)</sup></u>	<u>(8,341)</u>	<u>(8,292)</u>	<u>(10,479)</u>	<u>(8,554)</u>
Total	\$(727,930)	\$(754,831)	\$(816,889)	\$(892,145)	\$(897,897)
Ending Net Assets (Market Value) <sup>(6)</sup>	\$3,922,817	\$4,445,224	\$4,916,705	\$4,674,252	\$4,357,975

Source: Municipal Pension Fund's audited financial statements.

(1) Includes the PAF, which is not available for funding purposes.

(2) City Contributions include pension contributions from the Commonwealth. See Table 29.

(3) Investment income is shown net of fees and expenses, and includes interest and dividend income, net appreciation (depreciation) in fair value of investments, and net gains realized upon the sale of investments.<sup>(4)</sup> Miscellaneous income includes securities lending and other miscellaneous revenues.

(5) The \$15.2 million is the number in the Fund's 2012 audited financial statements. However, it was subsequently determined that certain investment expenses had been misclassified as administration expenses. If those investment expenses were not included, the administration deduction for Fiscal Year 2012 would have been \$8.5 million.

(6) For Fiscal Year 2012, does not include the \$230 million total contribution receivable, which was paid back and is included in Fiscal Year 2013 in the "City Contributions" amount. See Table 29.

## Funded Status of the Municipal Pension Fund

The following two tables set forth as of the July 1 actuarial valuation date for the years 2007-2016, the asset value, the actuarial liability, the UAL, the funded ratio, covered payroll and UAL, as a percentage of covered payroll for the Municipal Pension Fund on actuarial and market value bases, respectively.

**Table 27**  
**Schedule of Funding Progress (Actuarial Value)**  
**(Dollar Amounts in Millions of USD)**

<b>Actuarial Valuation Date (July 1)</b>	<b>Actuarial Value of Assets<sup>(1)</sup> (a)</b>	<b>Actuarial Liability (b)</b>	<b>UAL (Actuarial Value) (b-a)</b>	<b>Funded Ratio (a/b)</b>	<b>Covered Payroll (c)</b>	<b>UAL as a % of Covered Payroll [(b-a)/c]</b>
2007	\$4,421.7	\$8,197.2	\$3,775.5	53.9%	\$1,351.8	279.3%
2008	\$4,623.6	\$8,402.2	\$3,778.7	55.0%	\$1,456.5	259.4%
2009	\$4,042.1	\$8,975.0	\$4,932.9	45.0%	\$1,463.3	337.1%
2010	\$4,380.9	\$9,317.0	\$4,936.1	47.0%	\$1,421.2	347.3%
2011	\$4,719.1 <sup>(2)</sup>	\$9,487.5	\$4,768.4	49.7%	\$1,371.3	347.7%
2012	\$4,716.8 <sup>(2)</sup>	\$9,799.9	\$5,083.1	48.1%	\$1,372.2	370.4%
2013	\$4,799.3	\$10,126.2	\$5,326.9	47.4%	\$1,429.7	372.6%
2014	\$4,814.9	\$10,521.8	\$5,706.9	45.8%	\$1,495.4	381.6%
2015	\$4,863.4	\$10,800.4	\$5,937.0	45.0%	\$1,597.8	371.6%
2016	\$4,936.0	\$11,024.8	\$6,088.8	44.8%	\$1,676.5	363.2%

Source: July 1, 2016 Valuation.

<sup>(1)</sup> The July 1, 2010 Actuarial Value of Assets includes the \$150 million deferred contribution from Fiscal Year 2010 and each of the July 1, 2011 and July 1, 2012 Actuarial Value of Assets includes the total deferred contribution of \$230 million.

<sup>(2)</sup> Reflects the assumed rate of return on deferred contributions at the time of the deferral.

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**Table 28**  
**Schedule of Funding Progress (Market Value)**  
(Dollar Amounts in Millions of USD)

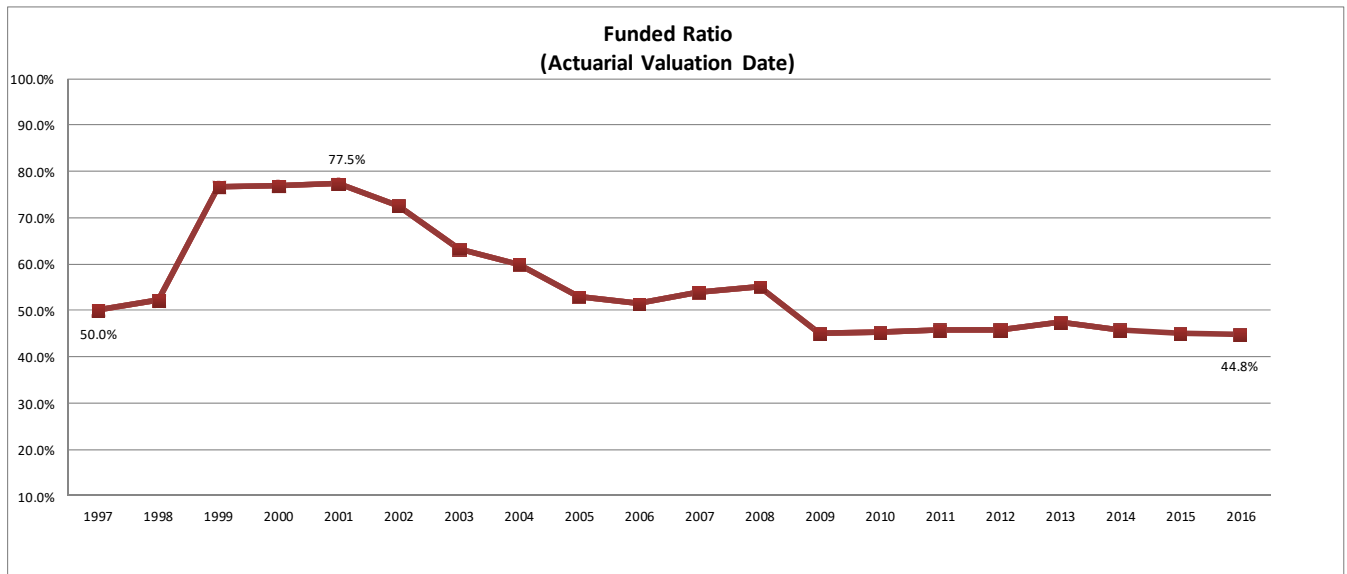
Actuarial Valuation Date (July 1)	Market Value of Net Assets <sup>(1)</sup> (a)	Actuarial Liability (b)	UAL (Market Value) (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAL as a % of Covered Payroll [(b-a)/c]
2007	\$4,850.9	\$8,197.2	\$3,346.3	59.2%	\$1,351.8	247.5%
2008	\$4,383.5	\$8,402.2	\$4,018.7	52.2%	\$1,456.5	275.9%
2009	\$3,368.4	\$8,975.0	\$5,606.6	37.5%	\$1,463.3	383.2%
2010	\$3,650.7	\$9,317.0	\$5,666.3	39.2%	\$1,421.2	398.7%
2011	\$4,259.2	\$9,487.5	\$5,228.3	44.9%	\$1,371.3	381.3%
2012	\$4,151.8	\$9,799.9	\$5,648.1	42.4%	\$1,372.2	411.6%
2013	\$4,444.1	\$10,126.2	\$5,682.1	43.9%	\$1,429.7	397.4%
2014	\$4,854.3	\$10,521.8	\$5,667.6	46.1%	\$1,495.4	379.0%
2015	\$4,636.1 <sup>(2)</sup>	\$10,800.4	\$6,164.3	42.9%	\$1,597.8	385.8%
2016	\$4,350.8 <sup>(2)</sup>	\$11,024.8	\$6,674.0	39.5%	\$1,676.5	398.1%

Source: 2007-2016 Actuarial Valuation Reports.

<sup>(1)</sup> The July 1, 2010 Market Value of Net Assets includes the \$150 million deferred contribution from Fiscal Year 2010 and each of the July 1, 2011 and July 1, 2012 Market Value of Net Assets includes the total deferred contribution of \$230 million.

<sup>(2)</sup> For purposes of this table, the Market Value of Net Assets excludes the PAF, which as of June 30, 2015 equaled \$38,198,762, and as of June 30, 2016 equaled \$7,223,000.

The following chart reflects the funded ratios, using the actuarial value of assets, for the 20-year period 1997 – 2016.



## Annual Contributions

### *Annual Municipal Pension Contributions*

Table 29 shows the components of the City's annual pension contributions to the Municipal Pension Fund for the Fiscal Years 2007-2016.

**Table 29**  
**Total Contribution to Municipal Pension Fund**  
**(Dollar Amounts in Millions of USD)**

Fiscal Year	General Fund Contribution (A)	Commonwealth Contribution (B)	Aggregate General Fund Contribution (A+B)	Water Fund Contribution	Aviation Fund Contribution	Grants Funding and Other Funds Contribution <sup>(1)</sup>	Contributions from Quasi-governmental Agencies	Pension Bond Proceeds	Total Contribution (C)	MMO (D)	MMO (Deferred) Makeup Payments	% of MMO Contributed (C/D)
2007	\$304.6	\$57.7	\$362.3	\$31.5	\$14.3	\$11.2	\$13.0	\$0.0	\$432.3	\$400.3		108.0%
2008	\$292.7	\$59.6	\$352.3	\$32.4	\$15.5	\$12.2	\$14.5	\$0.0	\$426.9	\$412.4		103.5%
2009	\$315.0	\$59.6	\$374.6	\$36.4	\$17.5	\$11.5	\$15.4	\$0.0	\$455.4	\$438.5		103.9%
2010	\$190.8 <sup>(2)</sup>	\$59.2	\$250.0	\$25.1	\$11.6	\$10.8	\$15.1	\$0.0	\$312.6 <sup>(2)</sup>	\$447.4	\$(150.0) <sup>(3)</sup>	100.0% <sup>(4)</sup>
2011	\$325.8 <sup>(2)</sup>	\$61.8	\$387.6	\$37.7	\$17.1	\$13.6	\$14.2	\$0.0	\$470.2 <sup>(2)</sup>	\$511.0	\$(80.0) <sup>(3)</sup>	100.0% <sup>(4)</sup>
2012	\$352.7	\$95.0	\$447.7	\$43.8	\$20.6	\$27.4	\$16.2	\$0.0	\$555.7	\$507.0		109.7%
2013	\$356.5	\$65.7	\$422.2	\$41.4	\$20.3	\$27.2	\$18.1	\$252.6 <sup>(3)</sup>	\$781.8	\$492.0	\$230.0 <sup>(3)</sup>	100.0% <sup>(4)</sup>
2014	\$365.8	\$69.6	\$435.4	\$45.5	\$22.5	\$30.0	\$19.8	\$0.0	\$553.2	\$523.4		105.7%
2015	\$388.5	\$62.0	\$450.5	\$48.3	\$23.9	\$33.4	\$21.1	\$0.0	\$577.2	\$556.0		103.8%
2016	\$449.6	\$62.6	\$512.2	\$55.1	\$27.1	\$34.8	\$31.0	\$0.0	\$660.2	\$595.0		110.0%

<sup>(1)</sup> Other Funds Contributions represents contributions to the Municipal Pension Fund from the City's Special Gasoline Tax Fund, Community Development Block Grant Fund, Municipal Pension Fund, Acute Care Hospital Assessment Fund, and General Capital Improvement Fund.

<sup>(2)</sup> Reflects the actual cash outlays for Fiscal Year 2010 and Fiscal Year 2011, which do not include the deferred contributions authorized pursuant to Act 44. See "– Funding Requirements; Funding Standards – Pennsylvania Law" above for a discussion of pension contribution deferrals authorized pursuant to Act 44.

<sup>(3)</sup> As authorized pursuant to Act 44, the City deferred payments to the Municipal Pension Fund of \$150 million in fiscal year 2010 and \$80 million in fiscal year 2011. Those amounts were repaid in fiscal year 2013, in which year the City made a contribution of \$252.6 to the Municipal Pension Fund, consisting of \$230 million of proceeds of Pension Bonds that were issued in October 2012 and \$22.6 million in refunding savings from a refunding Pension Bond financing in December 2012. See "– Pension Bonds" below.

<sup>(4)</sup> Act 205 directs the Actuary, in performing the actuarial valuations, to disregard deferrals, and therefore for ease of presentation 100.0% is reflected in this column for both the years in which the deferrals occurred and the year in which the makeup payment was made.

*Annual Debt Service Payments on the Pension Bonds*

Pension funding bonds (“Pension Bonds”) were issued in Fiscal Year 1999, at the request of the City, by PAID. Debt service on the Pension Bonds is payable pursuant to a Service Agreement between the City and PAID. The Service Agreement provides that the City is obligated to pay a service fee from its current revenues and the City covenanted in the agreement to include the annual amount in its operating budget and to make appropriations in such amounts as are required. If the City’s revenues are insufficient to pay the full service fee in any Fiscal Year as the same becomes due and payable, the City has covenanted to include amounts not so paid in its operating budget for the ensuing Fiscal Year.

The 1999 Pension Bonds were issued in the principal amount of \$1.3 billion, and the net proceeds were used, together with other funds of the City, to make a contribution in Fiscal Year 1999 to the Municipal Pension Fund in the amount of approximately \$1.5 billion.

In October 2012, PAID, at the request of the City, issued Pension Bonds in the principal amount of \$231.2 million, the proceeds of which were used principally to make the \$230 million repayment of deferred contributions to the Municipal Pension Fund reflected in Table 29 above. These bonds had maturities of April 1, 2013 and 2014, and have been repaid.

In December 2012, PAID, at the request of the City, issued Pension Bonds in the approximate principal amount of \$300 million, the proceeds of which were used to current refund a portion of the 1999 Pension Bonds. The refunding generated savings of approximately \$22.6 million, which the City deposited into the Municipal Pension Fund.

Table 30 shows the components of the City’s annual debt service payments on the Pension Bonds for the Fiscal Years 2007-2016.

**Table 30**  
**Total Debt Service Payments on Pension Bonds**  
**(Amounts in Millions of USD)**

Fiscal Year	General Fund Payment	Water Fund Payment	Aviation Fund Payment	Other Funds Payment <sup>(1)</sup>	Grants Funding	Total Payment
2007	\$74.6	\$7.2	\$3.2	\$0.5	\$1.3	\$86.8
2008	\$78.4	\$7.8	\$3.5	\$0.6	\$1.3	\$91.6
2009	\$84.4	\$7.2	\$3.3	\$0.6	\$1.3	\$96.8
2010	\$96.7	\$7.6	\$3.4	\$0.6	\$1.5	\$109.8
2011	\$97.7	\$10.3	\$4.6	\$0.8	\$1.5	\$114.9
2012	\$100.1	\$10.7	\$4.8	\$0.7	\$3.4	\$119.7
2013 <sup>(2)</sup>	\$196.6	\$21.5	\$10.1	\$1.3	\$3.8	\$233.3
2014 <sup>(2)</sup>	\$211.0	\$23.6	\$11.2	\$1.4	\$3.7	\$250.9
2015	\$107.7	\$12.6	\$5.9	\$0.8	\$4.0	\$131.0
2016	\$109.9	\$13.7	\$6.4	\$0.9	\$3.8	\$134.7

<sup>(1)</sup> Other Funds Payments represents the allocable portion of debt service payments on the City’s Pension Bonds from the City’s Special Gasoline Tax Fund, Community Development Block Grant Fund, Municipal Pension Fund, Acute Care Hospital Assessment Fund, and General Capital Improvement Fund.

<sup>(2)</sup> The increase in debt service payments in fiscal years 2013 and 2014 over the fiscal year 2012 amounts reflect the debt service payments on the Pension Bonds that were issued in October 2012. See “ – Pension Bonds” below.



*Annual Pension Costs of the General Fund*

Table 31 shows the annual pension costs of the General Fund for the Fiscal Years 2007-2016, being the sum of the General Fund Contribution to the Municipal Pension Fund (column (A) in Table 29 above) and the General Fund debt service payments on Pension Bonds (Table 30 above).

**Table 31**  
**Annual Pension Costs of the General Fund**  
**(Amounts in Millions of USD)**

Fiscal Year	General Fund Pension Fund Contribution (A) <sup>(1)</sup>	General Fund Pension Bond Debt Service Payment (B)	Annual Pension Costs (A+B)	Total General Fund Expenditures (C)	General Fund portion of Annual Pension Costs as % of Total General Fund Expenditures $\frac{(A+B)}{C}$
2007	\$304.6	\$74.6	\$379.2	\$3,736.66	10.15%
2008	\$292.7	\$78.4	\$371.1	\$3,919.84	9.47%
2009	\$315.0	\$84.4	\$399.4	\$3,915.29	10.20%
2010	\$190.8	\$96.7	\$287.5	\$3,653.73	7.87%
2011	\$325.8	\$97.7	\$423.5	\$3,785.29	11.19%
2012	\$352.7	\$100.1	\$452.8	\$3,484.88	12.99%
2013	\$356.5	\$196.6	\$553.1	\$3,613.27	15.31%
2014	\$365.8	\$211.0	\$576.8	\$3,886.56	14.84%
2015	\$388.5	\$107.7	\$496.2	\$3,831.51	12.95%
2016	\$449.6	\$109.9	\$559.5	\$4,015.80	13.93%

<sup>(1)</sup> Does not include Commonwealth contribution. See Table 29.

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The following table shows the annual City contribution to the Municipal Pension Fund as a percentage of the covered employee payroll.

**Table 32**  
**Annual City Contribution as % of Covered Employee Payroll**  
**(Dollar Amounts in Thousands of USD)**

<u>Fiscal Year</u>	<u>Annual City Contribution</u>	<u>Fiscal Year Covered Employee Payroll<sup>(1)</sup></u>	<u>ACC as % of Payroll</u>
2007	\$432,267	\$1,351,826	31.98%
2008	\$426,934	\$1,456,520	29.31%
2009	\$455,389	\$1,463,260	31.12%
2010	\$312,556	\$1,421,151	21.99%
2011	\$470,155	\$1,371,274	34.29%
2012	\$555,690	\$1,372,174	40.50%
2013	\$781,823	\$1,429,723	54.68%
2014	\$553,179	\$1,495,421	36.99%
2015	\$577,195	\$1,597,849	36.12%
2016	\$660,247	\$1,676,412	39.38%

Source: Municipal Pension Fund Financial Statements, June 30, 2016.

- (1) The definition of “covered-employee payroll” in GASB 68 differs slightly from the “covered payroll” definition in GASB 27. See “PENSION SYSTEM – Funding Requirements; Funding Standards – *GASB; City Funding Policy*.”

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## Actuarial Projections of Funded Status

**Cautionary Note.** The information under this subheading, “Actuarial Projections of Funded Status,” was prepared by Cheiron. The table below shows a five-year projection of MMO payments, Actuarial Value of Assets, Actuarial Liability, UAL, and Funded Ratio. The charts below show projections through 2036 of funded ratios and MMO contributions. All projections, whether for five years or for twenty years, are subject to actual experience deviating from the underlying assumptions and methods, and that is particularly the case for the charts below for the periods beyond the projections in the five-year table. **Projections and actuarial assessments are “forward looking” statements and are based upon assumptions which may not be fully realized in the future and are subject to change, including changes based upon the future experience of the City’s Municipal Pension Fund and Municipal Pension Plan.**

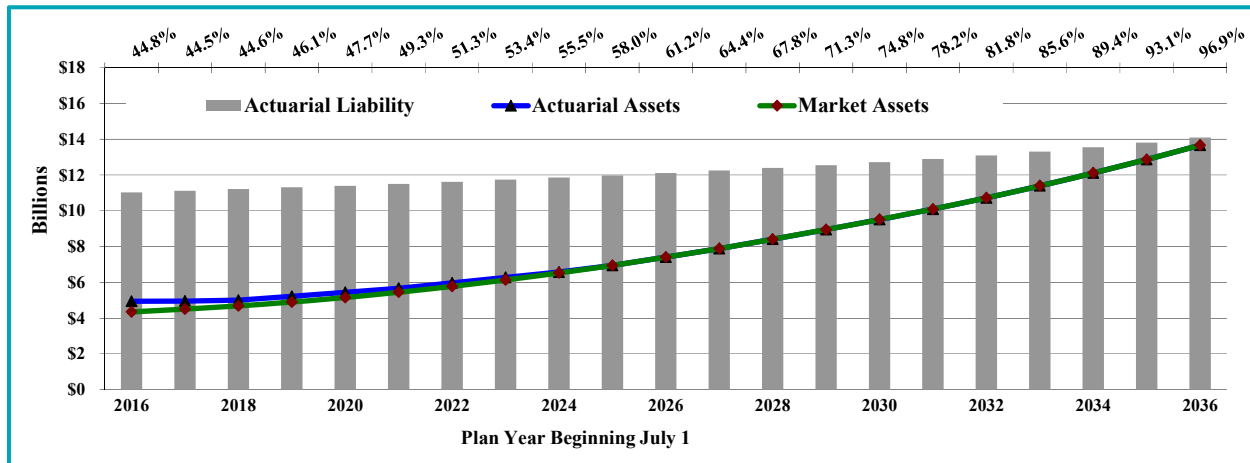
The projections are on the basis that all assumptions in the July 1, 2016 Valuation are exactly realized and the City makes all future MMO payments on schedule as required by Pennsylvania law, and must be understood in the context of the assumptions, methods and benefits in effect as described in the July 1, 2016 Valuation. Included among such assumptions are: (i) the rates of return for the Municipal Pension Fund over the projection period will equal 7.70% annually, (ii) MMO contributions will be made each year, and (iii) the provisions of Act 205 as amended by Act 44 will remain in force during the projection period. The July 1, 2016 Valuation includes charts reflecting the contributions based on MMO (charts 1A and 2A), and charts reflecting the additional contributions in accordance with the Revenue Recognition Policy (chart 3A). The charts below reflect the MMO contributions without taking into account any additional contributions in accordance with the Revenue Recognition Policy. See the July 1, 2016 Valuation for a further discussion of the assumptions and methodologies used by the Actuary in preparing the July 1, 2016 Valuation and the following projections, all of which should be carefully considered in reviewing the projections. The July 1, 2016 Valuation is available for review on the Municipal Retirement System website. The table and charts below separately set forth estimates of sales tax revenues that will be deposited by the City into the Municipal Pension Fund, which were provided by the City to Cheiron at the time of the valuation. Please note that the sales tax contribution figures below do not reflect the updated sales tax contribution figures included in the Proposed Twenty-Sixth Five-Year Plan (see line 11 of the “Revenues and Expenditures – Summary of Operations Fiscal Years 2016 to 2022” on page 333 of the Proposed Twenty-Sixth Five-Year Plan). Cheiron has not analyzed and makes no representation regarding the validity of the sales tax revenue assumptions and estimates provided by the City. See “REVENUES OF THE CITY – Sales and Use Tax.” Each of the tables and graphs that follow are part of the July 1, 2016 Valuation and such Valuation report should be referenced regarding the underlying benefits, methods, and assumptions utilized in the production of these values.

**Five-Year Projection.** For the following chart, dollar amounts are in millions of USD.

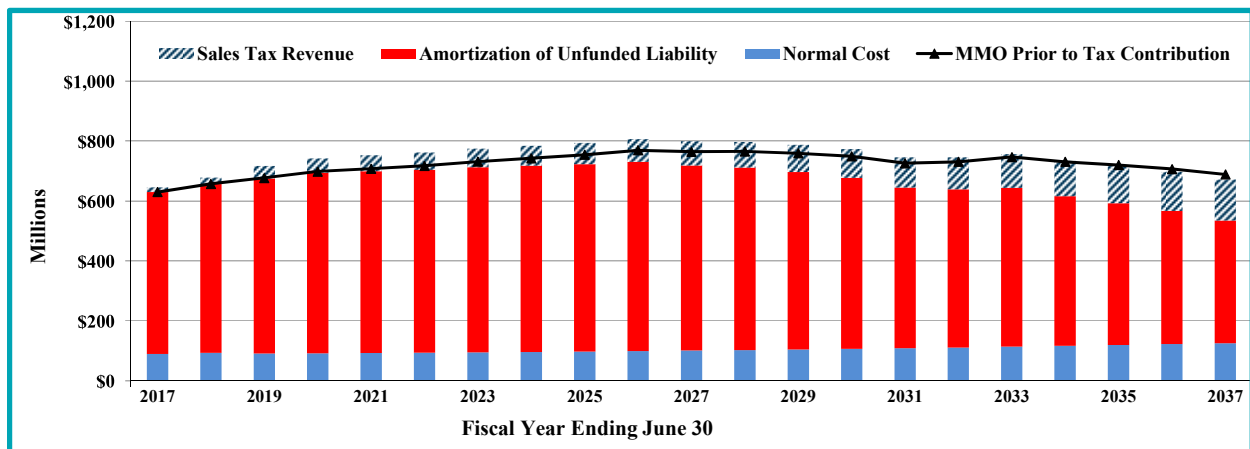
Fiscal Year End	MMO	Sales Tax Contribution	Actuarial Value of Assets	Actuarial Liability	UAL	Funded Ratio
2017	\$ 629.6	\$ 16.1	\$ 4,936.0	\$ 11,024.7	\$ 6,088.7	44.8%
2018	657.0	21.1	4,955.1	11,126.1	6,171.0	44.5%
2019	675.4	41.7	5,002.4	11,221.0	6,218.5	44.6%
2020	694.7	47.3	5,214.9	11,309.2	6,094.2	46.1%
2021	699.7	52.9	5,437.5	11,392.6	5,955.1	47.7%
2022	704.7	57.2	5,672.3	11,506.9	5,834.6	49.3%

Twenty-Year Projections.

Funded Ratio Chart:



MMO Contribution Chart:



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## OTHER POST-EMPLOYMENT BENEFITS

The City self-administers a single employer, defined benefit plan for post-employment benefits other than pension benefits (“OPEB”), and funds such plan on a pay-as-you-go basis. The City’s OPEB plan provides for those persons who retire from the City and are participants in the Municipal Pension Plan: (i) post-employment healthcare benefits for a period of five years following the date of retirement and (ii) lifetime life insurance coverage (\$7,500 for firefighters who retired before July 1, 1990; \$6,000 for all other retirees). In general, retirees eligible for OPEB are those who terminate their employment after ten years of continuous service to immediately become pensioned under the Municipal Pension Plan.

To provide health care coverage, the City pays a negotiated monthly premium for retirees covered by the union contract for AFSCME DC 33 and is self-insured for all other eligible pre-Medicare retirees. Aside from AFSCME DC 33, the City is responsible for the actual health care cost that is invoiced to the City’s unions by their respective vendors. The actual cost can be a combination of self-insured claim expenses, premiums, ancillary services, and administrative expenses. Eligible union represented employees receive five years of coverage through their union’s health fund. The City’s funding obligation for pre-Medicare retiree benefits is the same as for active employees. Union represented and non-union employees may defer their retiree health coverage until a later date. For some groups, the amount that the City pays for their deferred health care is based on the value of the health benefits at the time the retiree claims the benefits, but for police and fire retirees who retired after an established date, the City pays the cost of five years of coverage when the retiree claims the benefits.

The annual payments made by the City for OPEB for the last five Fiscal Years are shown in Table 33 below.

**Table 33**  
**Annual OPEB Payment**  
**(Amounts in Thousands of USD)**

<u>Fiscal Year ended June 30,</u>	<u>Annual OPEB Payment</u>
2012	\$76,344
2013	\$57,096
2014	\$67,100
2015	\$95,300
2016	\$107,200

Source: See Note IV.3 to the City’s audited Financial Statements for such Fiscal Years (as included in the City’s CAFRs).

For financial reporting purposes, although the City funds OPEB on a pay-as-you-go basis, it is required to include in its financial statements (in accordance with GASB Statement No. 45) a calculation similar to that performed to calculate its pension liability. Pursuant to GASB 45, an annual required contribution is calculated which, if paid on an ongoing basis, is projected to cover normal costs each year and to amortize any unfunded actuarial liability over a period not to exceed 30 years. As of July 1, 2015, the date of the most recent actuarial valuation, the UAL for the City’s OPEB was \$1.77 billion, the covered annual payroll was \$1.54 billion, and the ratio of UAL to the covered payroll was 114.8%. See Note IV.3 to the City’s audited Financial Statements for the Fiscal Year ended June 30, 2016.

## **PGW PENSION PLAN**

### **General**

PGW consists of all the real and personal property owned by the City and used for the acquisition, manufacture, storage, processing, and distribution of gas within the City, and all property, books, and records employed and maintained in connection with the operation, maintenance, and administration of PGW. The City Charter provides for a Gas Commission (the “Gas Commission”) to be constituted and appointed in accordance with the provisions of contracts between the City and the operator of PGW as may from time to time be in effect, or, in the absence of a contract, as may be provided by ordinance. The Gas Commission consists of the City Controller, two members appointed by City Council and two members appointed by the Mayor.

PGW is operated by PFMC, pursuant to an agreement between the City and PFMC dated December 29, 1972, as amended, authorized by ordinances of City Council (the “Management Agreement”). Under the Management Agreement, various aspects of PFMC’s management of PGW are subject to review and approval by the Gas Commission. The PUC has the regulatory responsibility for PGW with regard to rates, safety, and customer service.

The City sponsors the Philadelphia Gas Works Pension Plan (the “PGW Pension Plan”), a single employer defined benefit plan, to provide pension benefits for all of PGW’s employees and other eligible class employees of PFMC and the Gas Commission. As plan sponsor, the City, through its General Fund, could be responsible for plan liabilities if the PGW Pension Plan does not satisfy its payment obligations to PGW retirees. At July 1, 2016, the PGW Pension Plan membership total was 3,772, comprised of: (i) 2,521 retirees and beneficiaries currently receiving benefits and terminated employees entitled to benefits but not yet receiving them; and (ii) 1,251 participants, of which 1,036 were vested and 215 were nonvested.

### **PGW Pension Plan**

The PGW Pension Plan provides retirement benefits as well as death and disability benefits. Retirement benefits vest after five years of credited service. Retirement payments for vested employees commence: (i) at age 65 and five years of credited service; (ii) age 55 and 15 years of credited service; or (iii) without regard to age, after 30 years of credited service. For covered employees hired prior to May 21, 2011 (union employees) or prior to December 21, 2011 (non-union employees), PGW pays the entire cost of the PGW Pension Plan. Union employees hired on or after May 21, 2011 and non-union employees hired on or after December 21, 2011 have the option to participate in the PGW Pension Plan and contribute 6% of applicable wages, or participate in a plan established in compliance with Section 401(a) of the Internal Revenue Code (deferred compensation plan) and have PGW contribute 5.5% of applicable wages.

PGW is required by statute to contribute the amounts necessary to fund the PGW Pension Plan. The PGW Pension Plan is being funded with contributions by PGW to the Sinking Fund Commission of the City, together with investment earnings and employee contributions required for new hires after December 2011 who elect to participate in the PGW Pension Plan. Benefit and contribution provisions are established by City ordinance and may be amended only as allowed by City ordinance. The pension payments are treated as an operating expense of PGW and are included as a component of PGW’s base rate. As such, the payment amounts are subject to the approval of the PUC. To date, the PUC has approved the amounts requested that are allocable to pension payments. Effective October 2015, payments to beneficiaries of the PGW Pension Plan are made by the PGW Retirement Reserve Fund.

Prior to October 2015, payments to beneficiaries of the PGW Pension Plan were made by PGW through its payroll system. The financial statements for the PGW Pension Plan for the fiscal year ended June 30, 2016, show an amount due to PGW of approximately \$6.0 million, which represents the cumulative excess of payments made to the retirees and administrative expenses incurred by PGW, over the sum of PGW's required annual contribution and reimbursements received from the PGW Pension Plan.

### Pension Costs and Funding

PGW pays an annual amount that is projected to be sufficient to cover its normal cost and an amortization of the PGW Pension Plan's UAL. The following table shows the normal cost, the amortization payment, and the resulting annual required contribution as of the last five actuarial valuation dates for the PGW Pension Plan. PGW has been using a 20-year open amortization period (and the payments in Table 34 are on the basis of a 20-year open amortization). Commencing in PGW's fiscal year 2016, PGW will calculate an annual required contribution on the basis of both a 20-year open amortization period and a 30-year closed amortization period, and will contribute the higher of the two amounts. See "– Projections of Funded Status" below. An open amortization period is one that begins again or is recalculated at each actuarial valuation date. With a closed amortization period, the unfunded liability is amortized over a specific number of years to produce a level annual payment. Because the final amortization date is fixed, if all actuarial assumptions are achieved, the unfunded liability would decline to zero as of the final amortization date. To the extent future experience differs from the assumptions used to establish the 30-year fixed amortization payment schedule, new amortization bases attributable to a particular year's difference would be established and amortized over their own 30-year schedule.

**Table 34**  
**PGW Pension – Annual Required Contributions**  
**(Dollar Amounts in Thousands of USD)**

<b>Calculation of ARC for the 12- month period ended:</b>	<b>Normal Cost<sup>(1)</sup> (A)</b>	<b>Amortization Payment<sup>(1)</sup> (B)</b>	<b>ARC<sup>(1), (2)</sup> (A + B)</b>	<b>Payments to Beneficiaries<sup>(3)</sup></b>
9/1/2012	\$8,782	\$14,357	\$23,139	\$40,122
9/1/2013	\$8,533	\$15,127	\$23,660	\$41,614
9/1/2014	\$8,852	\$12,130	\$20,982	\$42,913
7/1/2015	\$7,859	\$18,063	\$25,922	\$46,917
7/1/2016	\$7,992	\$20,238	\$28,230	\$50,447

<sup>(1)</sup> Source: The Actuarial Valuation Report for the Plan Year July 1, 2016 – June 30, 2017 for the PGW Pension Plan.

<sup>(2)</sup> As described above, until October 2015, PGW did not make a net cash contribution to the PGW Pension Plan, but rather paid beneficiaries through its payroll system, and then was reimbursed by the Plan. Effective October 2015, payments to beneficiaries of the PGW Pension Plan are made by the PGW Retirement Reserve Fund. Each ARC is the sum reflected in this table, but the "Calculated Mid-Year Contribution" in Tables 36 and 37 more closely approximates the actual pension contributions made by PGW.

<sup>(3)</sup> Source: For 2012 and 2013, PGW's CAFR for the fiscal years ended August 31, 2012 and 2013, respectively. For 2014-2015, PGW's CAFR for the fiscal year ended August 31, 2015. For 2016, the audited financial statements for PGW for the fiscal years ended August 31, 2016 and 2015.

Although PGW has paid its annual required contribution each year, the market value of assets for the PGW Pension Plan is less than the actuarial accrued liability, as shown in the next table.

**Table 35**  
**Schedule of Pension Funding Progress**  
**(Dollar Amounts in Thousands of USD)<sup>(1)</sup>**

<b>Actuarial Valuation Date</b>	<b>Market Value of Assets</b>	<b>Actuarial Liability</b>	<b>UAL (Market Value)</b>	<b>Funded Ratio</b>
9/1/2012	\$437,780	\$585,632	\$147,852	74.75%
9/1/2013	\$462,691	\$623,612	\$160,921	74.20%
9/1/2014	\$514,944	\$643,988	\$129,044	79.96%
7/1/2015	\$510,719	\$706,704	\$195,985	72.27%
7/1/2016 <sup>(2)</sup>	\$483,259	\$736,078	\$252,819	65.65%

<sup>(1)</sup> Source: The Actuarial Valuation Report for the Plan Year July 1, 2016 – June 30, 2017 for the PGW Pension Plan.

<sup>(2)</sup> On July 1, 2016, the actuarial value of assets was \$511.3 million, resulting in a UAL of \$224.8 million, and a funded ratio of 69.46%. See Tables 36 and 37.

The current significant actuarial assumptions for the PGW Pension Plan are: (i) investment return rate of 7.30% compounded annually; (ii) salary increases assumed to reach 4.5% per year; and (iii) retirements that are assumed to occur, for those with 30 or more years of service, at a rate of 15% at ages 55 to 60, 30% at age 61, 50% at ages 62-69, and 100% at age 70 and older.

Since the last actuarial valuation performed as of July 1, 2015, the demographics of the plan participants have changed as follows: (i) the number of plan participants has decreased 0.7%, (ii) the total number of actives in the plan decreased 1.8%, (iii) total payroll has decreased 4.5%, (iv) average pay has decreased 2.8%, and (v) average age of active plan participants increased 1.2%. Effective September 1, 2016, PGW began utilizing an investment rate of return of 7.30% for the PGW Pension Plan. The assumed investment rate return for the period July 1, 2015 – August 31, 2016 was 7.65%. Such reduction in the assumed investment rate of return increased the measurement of plan liabilities by approximately 3.6% and increased the annual contribution by \$2,407,000 (2.6% of pay). The foregoing, among other factors, have resulted in an increase in the UAL from approximately \$196.0 million at July 1, 2015 to approximately \$252.8 at July 1, 2016.

PGW uses a September 1 – August 31 fiscal year, while the PGW Pension Plan uses a July 1 – June 30 fiscal year (the same as the City’s fiscal year). The last two actuarial valuation reports for the PGW Pension Plan utilized a plan year of July 1 to June 30. This is reflected in Table 35 above.

The PGW Pension Plan actuary prepared a separate actuarial valuation report (“GASB 67 Report”) for the fiscal year ending June 30, 2016, for purposes of plan reporting information under Governmental Accounting Standards Board Statement No. 67, “Financial Reporting for Pension Plans.” The GASB 67 Report shows for the fiscal year ending June 30, 2016, an unfunded liability of approximately \$296.1 million (rather than the approximately \$252.8 million reflected in Table 35), which results in a funded ratio of 62.00%. In addition, that report provides an interest rate sensitivity, which shows that were the investment rate to be 6.30% (1% lower than the assumed investment rate of 7.30%), the unfunded liability would be approximately \$387.1 million.



## Projections of Funded Status

The information under this subheading, “Projections of Funded Status,” is extracted from tables prepared by Aon Hewitt, as actuary to the PGW Pension Plan, which were included in their “Actuarial Valuation Report for the Plan Year July 1, 2016 – June 30, 2017,” dated October 28, 2016. The charts show 10-year projections, using both the current amortization method (20-year, open) and the alternative amortization method (30-year, fixed). See “– Pension Costs and Funding” above. Projections are subject to actual experience deviating from the underlying assumptions and methods. **Projections and actuarial assessments are “forward looking” statements and are based upon assumptions that may not be fully realized in the future and are subject to change, including changes based upon the future experience of the PGW Pension Plan.**

**Table 36**  
**Schedule of Prospective Funded Status (20-Year Open Amortization)**  
**(Dollar Amounts in Thousands of USD)**

<b>Actuarial Valuation Date (July 1)</b>	<b>Actuarial Value of Assets</b>	<b>Actuarial Accrued Liability</b>	<b>UAL (Actuarial Value)</b>	<b>Calculated Mid-Year Contribution<sup>(1), (2)</sup></b>	<b>Funded Ratio</b>
2016	\$511,289	\$736,078	\$224,789	\$29,260	69.46%
2017	\$516,312	\$743,161	\$226,849	\$29,201	69.48%
2018	\$520,981	\$749,322	\$228,341	\$29,227	69.53%
2019	\$525,256	\$754,759	\$229,502	\$29,361	69.59%
2020	\$529,287	\$760,354	\$231,067	\$29,267	69.61%
2021	\$539,874	\$764,209	\$224,335	\$28,403	70.64%
2022	\$549,285	\$766,619	\$217,334	\$27,526	71.65%
2023	\$557,447	\$767,850	\$210,403	\$26,709	72.60%
2024	\$564,315	\$768,739	\$204,424	\$25,598	73.41%
2025	\$569,580	\$769,172	\$199,591	\$25,018	74.05%

<sup>(1)</sup> Source: The Actuarial Valuation Report for the Plan Year July 1, 2016 – June 30, 2017 for the PGW Pension Plan.

<sup>(2)</sup> PGW makes monthly contributions to the PGW Retirement Reserve Fund. The actuary’s report assumes contributions at the beginning, middle, and end of the plan year. PGW utilizes the mid-year contribution level to approximate the actual funding methodology.

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**Table 37**  
**Schedule of Prospective Funded Status (30-Year Closed Amortization)**  
**(Dollar Amounts in Thousands of USD)**

<b>Actuarial Valuation Date (July 1)</b>	<b>Actuarial Value of Assets</b>	<b>Actuarial Accrued Liability</b>	<b>UAL (Actuarial Value)</b>	<b>Calculated Mid-Year Contribution<sup>(1), (2)</sup></b>	<b>Funded Ratio</b>
2016	\$511,289	\$736,078	\$224,789	\$26,470	69.46%
2017	\$516,312	\$743,161	\$226,849	\$26,587	69.48%
2018	\$520,981	\$749,322	\$228,341	\$26,806	69.53%
2019	\$525,256	\$754,759	\$229,502	\$27,157	69.59%
2020	\$529,287	\$760,354	\$231,067	\$27,293	69.61%
2021	\$539,874	\$764,209	\$224,335	\$26,792	70.64%
2022	\$549,285	\$766,619	\$217,334	\$26,298	71.65%
2023	\$557,447	\$767,850	\$210,403	\$25,880	72.60%
2024	\$564,315	\$768,739	\$204,424	\$25,178	73.41%
2025	\$569,580	\$769,172	\$199,591	\$25,013	74.05%

<sup>(1)</sup> Source: The Actuarial Valuation Report for the Plan Year July 1, 2016 – June 30, 2017 for the PGW Pension Plan.

<sup>(2)</sup> PGW makes monthly contributions to the PGW Retirement Reserve Fund. The actuary's report assumes contributions at the beginning, middle, and end of the plan year. PGW utilizes the mid-year contribution level to approximate the actual funding methodology.

#### **Additional Information**

The City issues a publicly available financial report that includes financial statements and required supplementary information for the PGW Pension Plan. The report is not incorporated into this Official Statement by reference. The report may be obtained by writing to the Office of the Director of Finance of the City.

Further information on the PGW Pension Plan, including with respect to its membership, plan description, funding policy, actuarial assumptions and funded status is contained in the Fiscal Year 2016 CAFR.

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## **PGW OTHER POST-EMPLOYMENT BENEFITS**

PGW provides post-employment healthcare and life insurance benefits to its participating retirees and their beneficiaries and dependents. The City, through its General Fund, could be responsible for costs associated with post-employment healthcare and life insurance benefits if PGW fails to satisfy its post-employment benefit obligations.

PGW pays the full cost of medical, basic dental, and prescription coverage for employees who retired prior to December 1, 2001. Employees who retire after December 1, 2001 are provided a choice of three plans at PGW's expense and can elect to pay toward a more expensive plan. Union employees hired prior to May 21, 2011 and non-union employees hired prior to December 21, 2011 who retire from active service to immediately begin receiving pension benefits are entitled to receive lifetime post-retirement medical, prescription, and dental benefits for themselves and, depending on their retirement plan elections, their dependents. Employees hired on or after those dates are entitled to receive only five years of post-retirement benefits. Currently, PGW provides for the cost of healthcare and life insurance benefits for retirees and their beneficiaries on a pay-as-you-go-basis.

As part of a July 29, 2010 rate case settlement (the "Rate Settlement"), which provided for the establishment of an irrevocable trust for the deposit of funds derived through a rider from all customer classes to fund OPEB liabilities (the "OPEB Surcharge"), PGW established the trust in July 2010, and began funding the trust in accordance with the Rate Settlement in September 2010. The Rate Settlement provides that PGW shall deposit \$15.0 million annually for an initial five-year period towards the ARC, and an additional \$3.5 million annually, which represents a 30-year amortization of the OPEB liability at August 31, 2010. These deposits will be funded primarily through increased rates of \$16.0 million granted in the Rate Settlement. The ARC represents a level of funding that, if paid on an ongoing basis, is projected to cover normal costs each year and amortize any unfunded actuarial liabilities (or funding excesses) over a period of 30 years. In PGW's most recent Gas Cost Rate ("GCR") proceeding, PGW proposed to continue its OPEB Surcharge. The parties to the GCR proceeding submitted a settlement agreement continuing the OPEB Surcharge at the same level of revenue (\$16 million annually) and funding (\$18.5 million annually). Such settlement agreement was approved by the PUC.

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Table 38 provides detail of actual PGW OPEB payments for the last five PGW Fiscal Years and projected PGW OPEB payments for PGW Fiscal Years 2017-2021.

**Table 38**  
**PGW OPEB Payments**  
**(Amounts in Thousands of USD)**

<b>Fiscal Year ended August 31,</b>	<b>Healthcare</b>	<b>Life Insurance</b>	<b>OPEB Trust</b>	<b>Total</b>
<u>Actual</u>				
2012	\$24,503	\$1,483	\$18,500	\$44,486
2013	\$22,180	\$1,562	\$18,500	\$42,242
2014	\$24,247	\$1,615	\$18,500	\$44,362
2015	\$28,598	\$1,749	\$18,500	\$48,847
2016 <sup>(1)</sup>	\$29,300	\$1,800	\$18,500	\$49,551
<u>Projections</u>				
2017	\$30,971	\$1,700	\$18,500	\$51,171
2018	\$34,449	\$1,700	\$18,500	\$54,649
2019	\$37,659	\$1,700	\$18,500	\$57,859
2020	\$41,010	\$1,700	\$18,500	\$61,210
2021	\$44,661	\$1,700	\$18,500	\$64,861

<sup>(1)</sup> For PGW Fiscal Year 2016, “Healthcare” and “Life Insurance” are rounded figures and, as such, will not sum. “Total” is an actual figure.

Table 39 is the schedule of PGW OPEB funding progress, as of the actuarial valuation date of August 31 for 2012-2016.

**Table 39**  
**Schedule of OPEB Funding Progress**  
**(Dollar Amounts in Thousands of USD)**

<b>Actuarial valuation date (August 31)</b>	<b>Actuarial value of assets</b>	<b>Actuarial liability</b>	<b>Unfunded actuarial liability</b>	<b>Funded ratio</b>
2012	\$38,860	\$443,982	\$405,122	8.8%
2013	\$61,796	\$436,527	\$374,731	14.2%
2014	\$90,838	\$450,289	\$359,451	20.2%
2015	\$104,318	\$505,434	\$401,116	20.6%
2016	\$131,868	\$489,725	\$357,857	26.9%

Further information on PGW’s annual OPEB expense, net OPEB obligation and the funded status of the OPEB benefits related to PGW is contained in the Fiscal Year 2016 CAFR.

## **CITY CASH MANAGEMENT AND INVESTMENT POLICIES**

### **General Fund Cash Flow**

Because the receipt of revenues into the General Fund generally lags behind expenditures from the General Fund during each Fiscal Year, the City issues notes in anticipation of General Fund revenues and makes payments from the Consolidated Cash Account (described below) to finance its on-going operations.

The timing imbalance referred to above results from a number of factors, principally the following: (i) Real Estate Taxes, BIRT, and certain other taxes are not due until the latter part of the Fiscal Year; and (ii) the City experiences lags in reimbursement from other governmental entities for expenditures initially made by the City in connection with programs funded by other governments.

The City has issued, or PICA has issued on behalf of the City, tax and revenue anticipation notes in each Fiscal Year since Fiscal Year 1972. Each issue was repaid when due, prior to the end of the Fiscal Year. The City issued \$175 million of tax and revenue anticipation notes on October 19, 2016, which mature on June 30, 2017.

The repayment of the tax and revenue anticipation notes is funded through cash available in the General Fund.

### **Consolidated Cash**

The Act of the General Assembly of June 25, 1919 (Pa. P.L. 581, No. 274, Art. XVII, § 6) authorizes the City to make temporary inter-fund loans between certain operating and capital funds. The City maintains a Consolidated Cash Account for the purpose of pooling the cash and investments of all City funds, except those which, for legal or contractual reasons, cannot be commingled (e.g., the Municipal Pension Fund, sinking funds, sinking fund reserves, funds of PGW, the Aviation Fund, the Water Fund, and certain other restricted purpose funds). A separate accounting is maintained to record the equity of each member fund that participates in the Consolidated Cash Account. The City manages the Consolidated Cash Account pursuant to the procedures described below.

To the extent that any member fund temporarily experiences the equivalent of a cash deficiency, an advance is made from the Consolidated Cash Account, in an amount necessary to result in a zero balance in the cash equivalent account of the borrowing fund. All subsequent net receipts of a member fund that has negative equity are applied in repayment of the advance.

All advances are made within the budgetary constraints of the borrowing funds. Within the General Fund, this system of inter-fund advances has historically resulted in the temporary use of tax revenues or other operating revenues for capital purposes and the temporary use of capital funds for operating purposes. With the movement of the reimbursable component of DHS activities from the General Fund to the Grants Revenue Fund, a similar system of advances has resulted in the use of tax revenues or other operating revenues in the General Fund to make expenditures from the Grants Revenue Fund, which advances may be outstanding for multiple Fiscal Years, but which are expected to be reimbursed by the Commonwealth.

Procedures governing the City's cash management operations require the General Fund-related operating fund to borrow initially from the General Fund-related capital fund, and only to the extent there

is a deficiency in such fund may the General Fund-related operating fund borrow money from any other funds in the Consolidated Cash Account.

## **Investment Practices**

Cash balances in each of the City's funds are managed to maintain daily liquidity to pay expenses, and to make investments that preserve principal while striving to obtain the maximum rate of return. Pursuant to the City Charter, the City Treasurer is the City official responsible for managing cash collected into the City Treasury. The available cash balances in excess of daily expenses are placed in demand accounts, swept into money market mutual funds, or used to make investments directed by professional investment managers. These investments are held in segregated trust accounts at a separate financial institution. Cash balances related to revenue bonds for water and sewer and the airport are directly deposited and held separately in trust. A fiscal agent manages these cash balances in accordance with the applicable bond documents and the investment practice is guided by administrative direction of the City Treasurer per the Investment Committee and the Investment Policy (as described below). In addition, certain operating cash deposits (such as Community Behavioral Health, Special Gas/County Liquid and "911" surcharge) of the City are restricted by purpose and required to be segregated into accounts in compliance with federal or Commonwealth reporting.

Investment guidelines for the City are embodied in section 19-202 of the Philadelphia Code. In furtherance of these guidelines, as well as Commonwealth and federal legislative guidelines, the Director of Finance adopted a written Investment Policy (the "Policy") that went into effect in August 1994 and was most recently revised in September 2014. The Policy supplements other legal requirements and establishes guiding principles for the overall administration and effective management of all of the City's monetary funds (except the Municipal Pension Fund, the PGW Retirement Reserve Fund, the PGW OPEB Trust and the PGW Workers' Compensation Reserve Fund).

The Policy delineates the authorized investments as authorized by the Philadelphia Code and the funds to which the Policy applies. The authorized investments include U.S. government securities, U.S. treasuries, U.S. agencies, repurchase agreements, commercial paper, corporate bonds, money market mutual funds, obligations of the Commonwealth, collateralized banker's acceptances and certificates of deposit, and collateralized mortgage obligations and pass-through securities directly issued by a U.S. agency or instrumentality, all of investment grade rating or better and with maturity limitations.

U.S. government treasury and agency securities carry no limitation as to the percent of the total portfolio. Repurchase agreements, money market mutual funds, commercial paper, and corporate bonds are limited to investment of no more than 25% of the total portfolio. Obligations of the Commonwealth and collateralized banker's acceptances and certificates of deposit are limited to no more than 15% of the total portfolio. Collateralized mortgage obligations and pass-through securities directly issued by a U.S. agency or instrumentality are limited to no more than 5% of the total portfolio.

U.S. government securities carry no limitation as to the percent of the total portfolio per issuer. U.S. agency securities are limited to no more than 33% of the total portfolio per issuer. Repurchase agreements and money market mutual funds are limited to no more than 10% of the total portfolio per issuer. Commercial paper, corporate bonds, obligations of the Commonwealth, collateralized banker's acceptances and certificates of deposit, and collateralized mortgage obligations and pass-through securities directly issued by a U.S. agency or instrumentality are limited to no more than 3% of the total portfolio per issuer.

The Policy provides for an ad hoc Investment Committee consisting of the Director of Finance, the City Treasurer and one representative each from the Water Department, the Division of Aviation, and PGW. The Investment Committee meets quarterly with each of the investment managers to review each manager's performance to date and to plan for the next quarter. Investment managers are given any changes in investment instructions at these meetings. The Investment Committee approves all modifications to the Policy. The Investment Committee may from time to time review and revise the Policy and does from time to time approve temporary waivers of the restrictions on assets based on cash management needs and recommendations of investment managers.

The Policy expressly forbids the use of any derivative investment product as well as investments in any security whose yield or market value does not follow the normal swings in interest rates. Examples of these types of securities include, but are not limited to: structured notes, floating rate (excluding U.S. Treasury and U.S. agency floating rate securities) or inverse floating rate instruments, securities that could result in zero interest accrual if held to maturity, and mortgage derived interest and principal only strips. The City currently makes no investments in derivatives.

## **DEBT OF THE CITY**

### **General**

Section 12 of Article IX of the Constitution of the Commonwealth provides that the authorized debt of the City "may be increased in such amount that the total debt of [the] City shall not exceed 13.5% of the average of the annual assessed valuations of the taxable realty therein, during the ten years immediately preceding the year in which such increase is made, but [the] City shall not increase its indebtedness to an amount exceeding 3.0% upon such average assessed valuation of realty, without the consent of the electors thereof at a public election held in such manner as shall be provided by law." The Supreme Court of Pennsylvania has held that bond authorizations once approved by the voters need not be reduced as a result of a subsequent decline in the average assessed value of City property. The general obligation debt subject to the limitation described in this paragraph is referred to herein as "Tax-Supported Debt."

The Constitution of the Commonwealth further provides that there shall be excluded from the computation of debt for purposes of the Constitutional debt limit, debt (herein called "Self-Supporting Debt") incurred for revenue-producing capital improvements that may reasonably be expected to yield revenue in excess of operating expenses sufficient to pay interest and sinking fund charges thereon. In the case of general obligation debt, the amount of such Self-Supporting Debt to be so excluded must be determined by the Court of Common Pleas of Philadelphia County upon petition by the City. Self-Supporting Debt is general obligation debt of the City, with the only distinction from Tax-Supported Debt being that it is not used in the calculation of the Constitutional debt limit. Self-Supporting Debt has no lien on any particular revenues.

For purposes of this Official Statement, Tax-Supported Debt and Self-Supporting Debt are referred to collectively as "General Obligation Debt." The term "General Fund-Supported Debt" is comprised of: (i) General Obligation Debt; and (ii) PAID, PMA, PPA, and PRA bonds.

Using the methodology described above, as of December 31, 2016, the Constitutional debt limitation for Tax-Supported Debt was approximately \$5,454,001,000. The total amount of authorized debt applicable to the debt limit was \$1,957,985,000, including \$873,632,000 of authorized but unissued debt, leaving a legal debt margin of \$3,496,016,000. Based on the foregoing figures, the calculation of the legal debt margin is as follows:

**Table 40**  
**General Obligation Debt**  
**December 31, 2016**  
**(Amounts in Thousands of USD)**

Authorized, issued and outstanding	\$1,437,685
Authorized and unissued	873,632
Total	<u>\$2,311,317</u>
Less: Self-Supporting Debt	(\$353,332)
Less: Serial bonds maturing within a year	<u>0</u>
Total amount of authorized debt applicable to debt limit	1,957,985
Legal debt limit	<u>5,454,001</u>
Legal debt margin	<u>\$3,496,016</u>

As a result of the implementation of the City's AVI, the assessed value of taxable real estate within the City has increased substantially. See "REVENUES OF THE CITY – Real Property Taxes Assessment and Collection." The \$5.454 billion Constitutional debt limit calculation includes three years of property values certified under the City's AVI program, and seven years of property values under the City's former property valuation process. Assuming no increase or decrease in property values used to calculate the Constitutional debt limit in Table 40, the Constitutional debt limit is estimated to be \$14.473 billion by 2024.

The City is also empowered by statute to issue revenue bonds and, as of February 28, 2017, had outstanding \$1,750,703,000 aggregate principal amount of Water and Wastewater Revenue Bonds ("Water and Wastewater Bonds"), \$834,850,000 aggregate principal amount of Gas Works Revenue Bonds, and \$1,124,705,000 aggregate principal amount of Airport Revenue Bonds. As of February 28, 2017, the principal amount of PICA bonds outstanding was \$266,095,000. The City has enacted ordinances authorizing the total issuance of approximately \$120 million and \$350 million aggregate principal amount in commercial paper for PGW and the Division of Aviation, respectively.

### **Short-Term Debt**

The City issued \$175 million of tax and revenue anticipation notes on October 19, 2016, which mature on June 30, 2017. As provided in the PICA Act, the City's tax and revenue anticipation notes are general obligations of the City, but do not constitute debt of the City subject to the limitations of the Constitutional debt limit. See "CITY CASH MANAGEMENT AND INVESTMENT POLICIES – General Fund Cash Flow."

### **Long-Term Debt**

The following table presents a synopsis of the bonded debt of the City and its component units as of the date indicated. Of the total balance of the City's general obligation bonds issued and outstanding as of February 28, 2017, approximately 20% is scheduled to mature within five Fiscal Years and approximately 48% is scheduled to mature within ten Fiscal Years. When PICA's outstanding bonds are



included with the City's general obligation bonds, approximately 56% is scheduled to mature within ten Fiscal Years.

**Table 41**  
**Bonded Debt – City of Philadelphia and Component Units**  
**as of February 28, 2017**  
**(Amounts in Thousands of USD)<sup>(1), (2)</sup>**

**General Obligation Debt and PICA Bonds**

General Obligation Bonds	\$1,431,705	
PICA Bonds	<u>266,095</u>	
<b>Subtotal: General Obligation Debt and PICA Bonds</b>		<b>\$1,697,800</b>

**Other General Fund-Supported Debt<sup>(3)</sup>**

Philadelphia Municipal Authority		
Criminal Justice Center	\$33,100	
Juvenile Justice Center	90,160	
Public Safety Campus	65,155	
Fleet Management Equipment Lease	6,561	
Energy Conservation	<u>10,615</u>	
		\$205,591
Philadelphia Authority for Industrial Development		
Pension capital appreciation bonds	\$559,407	
Pension fixed rate bonds	761,655	
Stadiums	262,830	
Library	5,570	
Cultural and Commercial Corridor	89,205	
One Parkway	32,165	
Philadelphia School District <sup>(4)</sup>	<u>29,105</u>	
		\$1,739,937
Parking Authority		11,660
Redevelopment Authority	<u>182,415</u>	
<b>Subtotal: Other General Fund-Supported Debt</b>		<b>\$2,139,603</b>

**Revenue Bonds**

Water Fund	\$1,750,703	
Aviation Fund	1,124,705	
Gas Works	<u>834,850</u>	
<b>Subtotal: Revenue Bonds</b>		<b><u>\$3,710,258</u></b>

<b>Grand Total</b>	<b><u>\$7,547,661</u></b>
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<sup>(1)</sup> Unaudited; figures may not sum due to rounding

<sup>(2)</sup> For tables setting forth a ten-year historical summary of Tax-Supported Debt of the City and the School District and the debt service requirements to maturity of the City's outstanding bonded indebtedness as of June 30, 2016, see the Fiscal Year 2016 CAFR.

<sup>(3)</sup> The principal amount outstanding relating to the PAID 1999 Pension Obligation Bonds, Series B (capital appreciation bonds) is reflected as the accreted value thereon as of February 28, 2017.

<sup>(4)</sup> This financing was undertaken by the City through PAID for the benefit of the School District and does not represent debt of the School District. For more information on this financing, see "REVENUES OF THE CITY – Sales and Use Tax" and "EXPENDITURES OF THE CITY – City Payments to School District."

**Table 42**  
**City of Philadelphia**  
**Annual Debt Service on General Fund-Supported Debt**  
**(as of February 28, 2017)**  
**(Amounts in Millions of USD)<sup>(1)</sup>**

<b>Fiscal Year</b>	<b><u>General Obligation Debt<sup>(2)</sup></u></b>			<b><u>Other General Fund-Supported Debt<sup>(4)</sup></u></b>			<b><u>Aggregate General Fund-Supported Debt</u></b>		
	<b><u>Principal</u></b>	<b><u>Interest<sup>(3)</sup></u></b>	<b><u>Total</u></b>	<b><u>Principal</u></b>	<b><u>Interest<sup>(5)</sup></u></b>	<b><u>Total</u></b>	<b><u>Principal</u></b>	<b><u>Interest</u></b>	<b><u>Total</u></b>
2017	\$67.89	\$69.82	\$137.71	\$101.04	\$141.55	\$242.60	\$168.93	\$211.37	\$380.31
2018	70.82	68.73	139.55	107.44	140.74	248.19	178.26	209.47	387.74
2019	74.45	65.18	139.63	74.21	140.01	214.22	148.66	205.19	353.85
2020	76.65	61.51	138.15	65.09	139.90	204.99	141.74	201.41	343.14
2021	69.98	57.95	127.91	80.29	124.79	205.08	150.27	182.74	332.99
2022	73.12	54.46	127.57	78.10	126.99	205.09	151.22	181.45	332.66
2023	77.80	50.66	128.45	115.51	89.57	205.08	193.31	140.23	333.53
2024	81.68	46.59	128.27	114.28	89.57	203.85	195.96	136.16	332.12
2025	85.67	42.36	128.03	118.75	85.12	203.87	204.42	127.48	331.90
2026	82.42	38.13	120.55	134.38	68.68	203.06	216.80	106.81	323.61
2027	86.38	33.88	120.26	159.56	45.64	205.20	245.94	79.52	325.46
2028	91.08	29.57	120.65	164.73	36.37	201.09	255.81	65.94	321.74
2029	65.73	25.87	91.60	276.97	19.36	296.33	342.70	45.23	387.93
2030	81.49	22.33	103.81	53.18	9.54	62.72	134.67	31.87	166.53
2031	86.30	18.27	104.57	55.71	7.02	62.73	142.01	25.29	167.30
2032	90.66	13.99	104.65	15.23	4.90	20.13	105.89	18.89	124.78
2033	55.58	10.41	65.98	7.40	4.29	11.69	62.98	14.70	77.67
2034	43.80	7.85	51.64	7.81	3.88	11.69	51.61	11.73	63.33
2035	29.55	5.98	35.53	8.26	3.43	11.69	37.81	9.41	47.22
2036	31.00	4.53	35.53	8.73	2.96	11.69	39.73	7.49	47.22
2037	17.33	3.33	20.66	9.23	2.46	11.69	26.56	5.79	32.35
2038	17.79	2.42	20.21	9.76	1.93	11.69	27.55	4.35	31.90
2039	18.67	1.55	20.21	10.33	1.37	11.69	29.00	2.92	31.90
2040	7.58	0.97	8.54	3.31	0.77	4.08	10.89	1.74	12.62
2041	7.93	0.62	8.54	3.45	0.62	4.07	11.38	1.24	12.61
2042	8.34	0.21	8.54	3.60	0.48	4.07	11.94	0.69	12.61
2043	0	0	0	3.75	0.33	4.08	3.75	0.33	4.08
2044	0	0	0	3.91	0.17	4.08	3.91	0.17	4.08
<b><u>Total</u></b>	<b><u>\$1,499.63</u></b>	<b><u>\$737.18</u></b>	<b><u>\$2,236.76</u></b>	<b><u>\$1,793.96</u></b>	<b><u>\$1,292.44</u></b>	<b><u>\$3,086.39</u></b>	<b><u>\$3,293.64</u></b>	<b><u>\$2,029.62</u></b>	<b><u>\$5,323.20</u></b>

<sup>(1)</sup> Showing a full year of debt service for Fiscal Year 2017. Does not include letter of credit fees. Figures may not sum due to rounding.

<sup>(2)</sup> Includes both Tax-Supported Debt and Self-Supporting Debt. See “– General.” Does not include PICA Bonds.

<sup>(3)</sup> Assumes interest rate on hedged variable rate bonds to be the associated fixed swap rate.

<sup>(4)</sup> Includes PAID, PMA, PPA, and PRA bonds, with capital appreciation bonds including only actual amounts payable. The original issuance amount of such capital appreciation bonds is included under the “Principal” column in the Fiscal Year such bonds mature and the full accretion amount at maturity less the original issuance amount is included in the “Interest” column in the Fiscal Year such bonds mature.

<sup>(5)</sup> Assumes interest rate on hedged variable rate bonds to be the associated fixed swap rate, plus any fixed spread. Net of capitalized interest on PAID 2012 Service Agreement Revenue Refunding Bonds.

## **Other Long-Term Debt Related Obligations**

The City has entered into other contracts and leases to support the issuance of debt by public authorities related to the City pursuant to which the City is required to budget and appropriate tax or other general revenues to satisfy such obligations, as shown in Table 41. The City budgets all other long-term debt-related obligations as a single budget item with the exception of PPA, which has a budget of \$1,335,293 for Fiscal Year 2017.

The Hospitals Authority and the State Public School Building Authority have issued bonds on behalf of the Community College of Philadelphia (“CCP”). Under the Community College Act (Pa. P.L. 103, No. 31 (1985)), each community college must have a local sponsor, which for CCP is the City. As the local sponsor, the City is obligated to pay up to 50% of the annual capital expenses of CCP, which includes debt service. The remaining 50% is paid by the Commonwealth. Additionally, the City annually appropriates funds for a portion of CCP’s operating costs (less tuition and less the Commonwealth’s payment). The amount paid by the City in Fiscal Year 2016 was \$30.3 million. The budgeted amount and current estimate for Fiscal Year 2017 is \$29.9 million.

In the first quarter of Fiscal Year 2016, the City entered into a service agreement supporting PAID’s guaranty of a \$15 million letter of credit securing the funding of certain costs related to the 2016 Democratic National Convention.

## **PICA Bonds**

PICA has issued 11 series of bonds at the request of the City (the “PICA Bonds”). PICA no longer has authority under the PICA Act to issue bonds for new money purposes, but may refund bonds previously issued. As of February 28, 2017, the principal amount of PICA Bonds outstanding was \$266,095,000. The final maturity date for such PICA Bonds is June 15, 2023. The proceeds of the PICA Bonds were used to: (i) make grants to the City to fund its General Fund deficits, to fund the costs of certain City capital projects, to provide other financial assistance to the City to enhance operational productivity, and to defease certain of the City’s general obligation bonds; (ii) refund other PICA Bonds; and (iii) pay costs of issuance.

The PICA Act authorizes the City to impose a tax for the sole and exclusive purposes of PICA. In connection with the adoption of the Fiscal Year 1992 budget and the execution of the PICA Agreement, as so authorized by the PICA Act, the City reduced the wage, earnings, and net profits taxes on City residents by 1.5% and enacted a new tax of 1.5% on wages, earnings, and net profits of City residents (the “PICA Tax”), which continues in effect. The PICA Tax secures the PICA Bonds. Pursuant to the PICA Act, at such time when no PICA Bonds are outstanding, the PICA Tax will expire. At any time, the City is authorized to increase for its own use its various taxes, including its wage, earnings, and net profits taxes on City residents and could do so upon the expiration of the PICA Tax.

The PICA Tax is collected by the City’s Department of Revenue, as agent of the State Treasurer, and deposited in the Pennsylvania Intergovernmental Cooperation Authority Tax Fund (the “PICA Tax Fund”) of which the State Treasurer is custodian. The PICA Tax Fund is not subject to appropriation by City Council or the General Assembly. See “THE GOVERNMENT OF THE CITY OF PHILADELPHIA – Local Government Agencies – *Non-Mayoral-Appointed or Nominated Agencies* – PICA.”

The PICA Act authorizes PICA to pledge the PICA Tax to secure its bonds and prohibits the Commonwealth and the City from repealing the PICA Tax or reducing its rate while any PICA Bonds are outstanding. PICA Bonds are payable from PICA revenues, including the PICA Tax, pledged to secure PICA's bonds, the Bond Payment Account (as described below) and any debt service reserve fund established for such bonds and have no claim on any revenues of the Commonwealth or the City.

The PICA Act establishes a "Bond Payment Account" for PICA as a trust fund for the benefit of PICA bondholders and authorizes the creation of a debt service reserve fund for bonds issued by PICA. The State Treasurer is required to pay the proceeds of the PICA Tax held in the PICA Tax Fund directly to the Bond Payment Account. The proceeds of the PICA Tax in excess of amounts required for: (i) debt service; (ii) replenishment of any debt service reserve fund for bonds issued by PICA; and (iii) certain PICA operating expenses, are required to be deposited in a trust fund established exclusively to benefit the City and designated the "City Account." Amounts in the City Account are required to be remitted to the City not less often than monthly, unless PICA certifies the City's non-compliance with the then-current five-year financial plan.

The total amount of PICA Tax remitted by the State Treasurer to PICA (which is net of the costs of the State Treasurer in collecting the PICA Tax), PICA annual debt service and investment expenses, and net PICA tax revenue remitted to the City for Fiscal Years 2012-2016 and the budgeted amounts and the current estimates for Fiscal Year 2017 are set forth below.

**Table 43**  
**Summary of PICA Tax Remitted by the State Treasurer to PICA**  
**and Net Taxes Remitted by PICA to the City**  
**(Amounts in Millions of USD)<sup>(1)</sup>**

<u>Fiscal Year</u>	<u>PICA Tax<sup>(2)</sup></u>	<u>PICA Annual Debt Service and Investment Expenses<sup>(2)</sup></u>	<u>Net taxes remitted to the City<sup>(3)</sup></u>
2012 (Actual)	\$357.5	\$62.3	\$295.2
2013 (Actual)	\$376.5	\$62.5	\$314.0
2014 (Actual)	\$384.5	\$65.8	\$318.7
2015 (Actual)	\$408.5	\$62.0	\$346.5
2016 (Actual)	\$444.5	\$61.1	\$383.4
2017 (Adopted Budget)	\$450.0	\$65.3	\$384.7
2017 (Current Estimate)	\$460.0	\$65.3	\$394.7

<sup>(1)</sup> Figures may not sum due to rounding.

<sup>(2)</sup> Source: The City's Quarterly City Manager's Reports.

<sup>(3)</sup> Source: For Fiscal Years 2012-2016, the City's CAFRs for such Fiscal Years. For Fiscal Year 2017, the Fiscal Year 2017 Adopted Budget and the Proposed Fiscal Year 2018 Budget.

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## OTHER FINANCING RELATED MATTERS

### Swap Information

The City has entered into various swaps related to its outstanding General Fund-Supported Debt as detailed in the following table:

**Table 44**  
**Summary of Swap Information**  
**for General Fund-Supported Debt**  
**as of February 28, 2017**

City Entity	City GO	City Lease PAID	City Lease PAID	City Lease PAID	City Lease PAID	City Lease PAID
Related Bond Series	2009B <sup>(1)</sup>	2007A (Stadium) <sup>(2)</sup>	2007B-2,3 (Stadium) <sup>(3),(5)</sup>	2014A (Stadium) <sup>(3)</sup>	2007B-2,3 (Stadium) <sup>(3),(6)</sup>	2014A (Stadium) <sup>(3)</sup>
Initial Notional Amount	\$313,505,000	\$298,485,000	\$217,275,000	\$87,961,255	\$72,400,000	\$29,313,745
Current Notional Amount	\$100,000,000	\$193,520,000	\$87,758,745	\$87,961,255	\$29,246,255	\$29,313,745
Termination Date	8/1/2031	10/1/2030	10/1/2030	10/1/2030	10/1/2030	10/1/2030
Product	Fixed Payer Swap	Basis Swap	Fixed Payer Swap	Fixed Payer Swap	Fixed Payer Swap	Fixed Payer Swap
Rate Paid by Dealer	SIFMA	67% 1-month LIBOR + 0.20% plus fixed annuity	SIFMA	70% 1-month LIBOR	SIFMA	70% 1-month LIBOR
Rate Paid by City Entity	3.829%	SIFMA	3.9713%	3.62%	3.9713%	3.632%
Dealer	Royal Bank of Canada	Merrill Lynch Capital Services, Inc.	JPMorgan Chase Bank, N.A.	JPMorgan Chase Bank, N.A.	Merrill Lynch Capital Services, Inc.	Merrill Lynch Capital Services, Inc.
Fair Value <sup>(4)</sup>	(\$19,719,663)	(\$3,550,244)	(\$15,686,943)	(\$15,562,668)	(\$5,228,161)	(\$5,214,643)
Additional Termination Events	<p><u>For Dealer:</u> Rating change below BBB- or Baa3</p> <p><u>For City:</u> Rating change below BBB- or Baa3 upon insurer event (includes insurer being rated below A- or A3)</p>	<p><u>For Dealer:</u> Rating change below BBB- or Baa3</p> <p><u>For PAID:</u> Rating change below BBB- or Baa3 upon insurer event</p>	<p><u>For Dealer:</u> Rating change below BBB- or Baa3</p> <p><u>For PAID:</u> Rating change below BBB- or Baa3 upon insurer event (includes insurer being rated below A- or A3)</p>	<p><u>For Dealer:</u> Rating change below BBB- or Baa3</p> <p><u>For PAID:</u> Rating change below BBB- or Baa3 upon insurer event (includes insurer being rated below A- or A3)</p>	<p><u>For Dealer:</u> Rating change below BBB- or Baa3</p> <p><u>For PAID:</u> Rating change below BBB- or Baa3 upon insurer event (includes insurer being rated below A- or A3)</p>	<p><u>For Dealer:</u> Rating change below BBB- or Baa3</p> <p><u>For PAID:</u> Rating change below BBB- or Baa3 upon insurer event (includes insurer being rated below A- or A3)</p>

<sup>(1)</sup> On July 28, 2009, the City terminated a portion of the swap in the amount of \$213,505,000 in conjunction with the refunding of its Series 2007B bonds with the Series 2009A fixed rate bonds and the Series 2009B variable rate bonds. The City made a termination payment of \$15,450,000.

<sup>(2)</sup> PAID received annual fixed payments of \$1,216,500 from July 1, 2004 through July 1, 2013. As the result of an amendment on July 14, 2006, \$104,965,000 of the total notional amount was restructured as a constant maturity swap (the rate received by PAID on that portion was converted from a percentage of 1-month LIBOR to a percentage of the 5-year LIBOR swap rate from October 1, 2006 to October 1, 2020). The constant maturity swap was terminated in December 2009. The City received a termination payment of \$3,049,000.

<sup>(3)</sup> On May 13, 2014, PAID converted a portion of the 2007B SIFMA Swap to a LIBOR-based swap in conjunction with the refunding of its Series 2007B bonds with the Series 2014A bonds. Under the conversion, PAID pays a fixed rate of 3.62% and 3.632% to JPMorgan and Merrill Lynch, respectively, and receives a floating rate of 70% of 1-month LIBOR.

<sup>(4)</sup> Fair values are as of February 28, 2017, and are shown from the City's perspective and include accrued interest.

<sup>(5)</sup> On July 21, 2014, PAID terminated a portion of the swap in the amount of \$41,555,000 in conjunction with the refunding of its Series 2007B bonds with the Series 2014B fixed rate bonds. PAID made a termination payment of \$4,171,000 to JPMorgan.

<sup>(6)</sup> On July 21, 2014, PAID terminated a portion of the swap in the amount of \$13,840,000 in conjunction with the refunding of its Series 2007B bonds with the Series 2014B fixed rate bonds. PAID made a termination payment of \$1,391,800 to Merrill Lynch.

While the City is party to several interest rate swap agreements, for which there is General Fund exposure and on which the swaps currently have a negative mark against the City, the City has no obligation to post collateral on these swaps while the City's underlying ratings are investment grade.

For more information related to certain swaps entered into in connection with revenue bonds issued for PGW, the Water Department, and the Division of Aviation, see the Fiscal Year 2016 CAFR. In addition, PICA has entered into swaps, which are detailed in the Fiscal Year 2016 CAFR.

## **Swap Policy**

The City has adopted a swap policy for the use of swaps, caps, floors, collars and other derivative financial products (collectively, "swaps") in conjunction with the City's debt management. The swap program managed by the City includes swaps related to the City's general obligation bonds, tax-supported service contract debt issued by related authorities, debt of the Water Department, Division of Aviation, and debt of PGW. Swaps related to debt of the PICA, the School District, and the PPA are managed by those governmental entities, respectively.

The Director of Finance has overall responsibility for entering into swaps. Day-to-day management of swaps is the responsibility of the City Treasurer, and the Executive Director of the Sinking Fund Commission is responsible for making swap payments. The Office of the City Treasurer and the City Solicitor's Office coordinate their activities to ensure that all swaps that are entered into are in compliance with applicable federal, state, and local laws.

The swap policy addresses the circumstances when swaps can be used, the risks that need to be evaluated prior to entering into swaps and on an ongoing basis after swaps have been executed, the guidelines to be employed when swaps are used, and how swap counterparties will be chosen. The swap policy is used in conjunction with the City's Debt Management Policy, reviewed annually, and updated as needed.

Under the swap policy, permitted uses of swaps include: (i) managing the City's exposure to floating interest rates through interest rate swaps, caps, floors and collars; (ii) locking in fixed rates in current markets for use at a later date through the use of forward starting swaps and rate locks; (iii) reducing the cost of fixed or floating rate debt through swaps and related products to create "synthetic" fixed or floating rate debt; and (iv) managing the City's credit exposure to financial institutions and other entities through the use of offsetting swaps.

Since swaps can create exposure to the creditworthiness of financial institutions that serve as the City's counterparties on swap transactions, the City has established standards for swap counterparties. As a general rule, the City enters into transactions with counterparties whose obligations are rated in the double-A rated category or better from two nationally recognized rating agencies. If counterparty's credit rating is downgraded below the double-A rating category, the swap policy requires that the City's exposure be collateralized. If a counterparty's credit is downgraded below the A category, even with collateralization, the swap policy requires a provision in the swap permitting the City to exercise a right to terminate the transaction prior to its scheduled termination date.

## Letter of Credit Agreements

The City has entered into various letter of credit agreements related to its General Fund-Supported Debt as detailed in the table below. Under the terms of such letter of credit agreements, following a purchase of the applicable bonds, the City may be required to amortize such bonds more quickly than as originally scheduled at issuance.

**Table 45**  
**Summary of Letter of Credit Agreements**  
**for General Fund-Supported Debt**  
**as of February 28, 2017**

<b>Variable Rate Bond Series</b>	<b>Amount Outstanding</b>	<b>Bond Maturity Date</b>	<b>Provider</b>	<b>Expiration Date</b>	<b>Rating Thresholds <sup>(1)</sup></b>
General Obligation Multi-Modal Refunding Bonds, Series 2009B	\$100,000,000	August 1, 2031	Barclays Bank PLC	May 24, 2019	The long-term rating assigned by any one of the rating agencies to any unenhanced long-term parity debt of the City is (i) withdrawn or suspended for credit-related reasons or (ii) reduced below investment grade.
PAID Multi-Modal Lease Revenue Refunding Bonds, Series 2007B-2	\$72,400,000	October 1, 2030	TD Bank	May 29, 2019	The long-term ratings assigned by at least two of the rating agencies to any unenhanced general obligation bonds of the City is (i) withdrawn or suspended for credit-related reasons, or (ii) reduced below investment grade.
PAID Multi-Modal Lease Revenue Refunding Bonds, Series 2007B-3	\$44,605,000	October 1, 2030	PNC Bank	May 23, 2017	The long-term ratings assigned by at least two of the rating agencies to any unenhanced general obligation bonds of the City is (i) withdrawn or suspended for credit-related reasons, or (ii) reduced below investment grade.

<sup>(1)</sup> The occurrence of a Rating Threshold event would result in an event of default under the reimbursement agreement with the related bank.

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## Recent and Upcoming Financings

*Recent Financings.* The following is a list of financings that the City has entered into since June 30, 2016:

- In April 2017, the City, together with the Water Department, issued \$279,865,000 in Water and Wastewater Revenue Bonds.
- In February 2017, the City issued \$262,865,000 in General Obligation Refunding Bonds.
- In November 2016, the City, together with the Water Department, issued \$192,680,000 in Water and Wastewater Bonds to refund certain outstanding maturities.
- In October 2016, the City issued \$175,000,000 of its tax and revenue anticipation notes to finance certain cash flow needs of the City.
- In August 2016, the City, together with PGW, issued \$312,425,000 of its Gas Works Revenue Refunding Bonds to refund certain outstanding series of such bonds.

*Upcoming Financings.* The City currently expects to enter into the following financings within the next six months:

- In the spring of 2017, the City, together with the Division of Aviation, expects to issue approximately \$550 million in Airport Revenue and Refunding Bonds.
- In the summer of 2017, the City expects to issue approximately \$293 million in General Obligation Bonds.
- In the summer of 2017, the City, through PAID, expects to issue approximately \$60 million in City Agreement Revenue Bonds.
- In the summer of 2017, the City, together with PGW, expects to issue approximately \$250 million in Gas Works Revenue Bonds.

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## CITY CAPITAL PROGRAM

As part of the annual budget process, the Mayor submits for approval a six-year capital program to City Council, together with the proposed operating budget. For more information on the City's budget process, see "DISCUSSION OF FINANCIAL OPERATIONS – Budget Procedure."

### Certain Historical Capital Expenditures

Table 46 shows the City's historical expenditures for Fiscal Years 2012-2016 for certain capital purposes, including expenditures for projects related to transit, streets and sanitation, municipal buildings, recreation, parks, museums, and stadia, and economic and community development. The source of funds used for such expenditures are primarily general obligation bond proceeds, but also include federal, state, private, and other government funds and operating revenue. Figures in the table below may not sum due to rounding.

**Table 46**  
**Historical Expenditures for Certain Capital Purposes**  
**Fiscal Years 2012-2016**

Purpose Category	2012	2013	2014	2015	2016
Transit	\$ 1,224,771	\$ 3,895,208	\$ 2,168,224	\$ 1,283,307	\$ 3,157,479
Streets & Sanitation	61,753,417	63,925,744	46,806,225	63,612,248	18,004,055
Municipal Buildings	41,583,740	37,979,932	35,579,152	53,419,449	126,772,899
Recreation, Parks, Museums & Stadia	27,002,563	26,609,320	17,787,234	29,875,633	24,737,224
Economic & Community Development	<u>4,654,093</u>	<u>4,654,403</u>	<u>11,839,066</u>	<u>12,714,468</u>	<u>9,695,604</u>
<b><u>TOTAL</u></b>	<b><u>\$136,218,584</u></b>	<b><u>\$137,064,607</u></b>	<b><u>\$114,179,901</u></b>	<b><u>\$160,905,105</u></b>	<b><u>\$182,367,262</u></b>

Table 47 shows the City's historical expenditures for Fiscal Years 2012-2016 for certain capital purposes from general obligation bond proceeds only and the percentage of the total costs covered by such proceeds in such Fiscal Years. Figures in the table below may not sum due to rounding.

**Table 47**  
**Historical Expenditures for Certain Capital Purposes**  
**(General Obligation Bond Proceeds Only)**  
**Fiscal Years 2012-2016**

Purpose Category	2012	2013	2014	2015	2016
Transit	\$ 1,224,771	\$ 3,895,208	\$ 2,168,224	\$ 1,274,467	\$ 3,157,479
Streets & Sanitation	27,421,106	20,921,343	18,642,621	24,887,488	5,676,057
Municipal Buildings	18,611,628	19,108,015	27,936,597	47,163,418	69,192,711
Recreation, Parks, Museums & Stadia	20,992,545	23,403,765	15,838,047	25,494,778	17,524,673
Economic & Community Development	<u>3,739,978</u>	<u>4,459,786</u>	<u>11,816,222</u>	<u>12,714,468</u>	<u>9,511,479</u>
<b><u>TOTAL</u></b>	<b><u>\$71,990,028</u></b>	<b><u>\$71,788,117</u></b>	<b><u>\$76,401,711</u></b>	<b><u>\$111,534,619</u></b>	<b><u>\$105,062,399</u></b>
 Percentage of Total Costs	 53%	 52%	 67%	 69%	 58%

## Adopted Capital Program

The Adopted Capital Program is included as part of the Modified Twenty-Fifth Five-Year Plan and contemplates a total budget of \$9,335,554,204. In the Adopted Capital Program, \$3,504,298,157 is expected to be provided from federal, Commonwealth, and other sources and the remainder through City funding. The following table shows the amounts budgeted each year from various sources of funds for capital projects in the Adopted Capital Program.

**Table 48**  
**Adopted Capital Program (Fiscal Years 2017-2022)**

<b>Funding Source</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2017-2022</b>
<b><u>City Funds--Tax Supported</u></b>							
Carried- Forward Loans	\$344,444,249	-	-	-	-	-	\$344,444,249
Operating Revenue	26,381,281	\$2,100,000	\$2,100,000	\$2,100,000	\$2,100,000	\$1,600,000	36,381,281
New Loans	177,214,000	150,289,000	160,472,000	134,357,698	136,643,132	137,839,132	896,814,962
Prefinanced Loans	4,855,571	-	-	-	-	-	4,855,571
PICA Prefinanced Loans	<u>4,946,169</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>4,946,169</u>
Tax Supported Subtotal	\$557,841,270	\$152,389,000	\$162,572,000	\$136,457,698	\$138,743,132	\$139,439,132	\$1,287,442,232
<b><u>City Funds--Self Sustaining</u></b>							
Self-Sustaining Carried Forward Loans	\$493,656,435	-	-	-	-	-	\$493,656,435
Self-Sustaining Operating Revenue	169,380,536	\$65,629,999	\$72,187,001	\$79,788,003	\$82,243,002	\$89,057,005	\$558,285,546
Self-Sustaining New Loans	<u>575,559,836</u>	<u>589,731,000</u>	<u>585,935,002</u>	<u>590,080,997</u>	<u>584,830,988</u>	<u>555,734,011</u>	<u>\$3,481,871,834</u>
Self-Sustaining Subtotal	\$1,238,596,807	\$655,360,999	\$658,122,003	\$669,869,000	\$667,073,990	\$644,791,016	\$4,533,813,815
<b><u>Other City Funds</u></b>							
Revolving Funds	\$10,000,000	\$0	\$0	\$0	\$0	\$0	\$10,000,000
<b><u>Other Than City Funds</u></b>							
Carried-Forward Other Government	\$6,100,479	-	-	-	-	-	\$6,100,479
Other Government Off Budget	2,828,000	\$1,700,000	\$1,724,000	\$1,824,000	\$1,721,000	\$1,411,000	11,208,000
Other Governments	300,000	-	-	-	-	-	300,000
Carried-Forward State	118,829,683	-	-	-	-	-	118,829,683
State Off Budget	243,280,000	216,417,000	219,754,000	225,960,000	226,335,000	222,048,000	1,353,794,000
State	57,974,996	26,185,002	29,399,995	31,086,002	29,838,005	28,979,992	203,463,992
Carried-Forward Private	119,746,000	-	-	-	-	-	119,746,000
Private	96,570,001	114,431,997	106,269,997	104,015,003	105,036,002	104,025,998	630,348,998
Carried-Forward Federal	209,662,008	-	-	-	-	-	209,662,008
Federal Off-Budget	50,550,000	47,057,000	72,114,000	77,374,000	14,439,000	1,912,000	263,446,000
Federal	<u>127,184,998</u>	<u>93,512,002</u>	<u>113,234,005</u>	<u>93,197,995</u>	<u>84,205,003</u>	<u>76,064,994</u>	<u>587,398,997</u>
Other Than City Funds Subtotal	\$1,033,026,165	\$499,303,001	\$542,495,997	\$533,457,000	\$461,574,010	\$434,441,984	\$3,504,298,157
<b>TOTAL</b>	<b><u>\$2,839,464,242</u></b>	<b><u>\$1,307,053,000</u></b>	<b><u>\$1,363,190,000</u></b>	<b><u>\$1,339,783,698</u></b>	<b><u>\$1,267,391,132</u></b>	<b><u>\$1,218,672,132</u></b>	<b><u>\$9,335,554,204</u></b>

## Proposed Capital Program

The City's proposed capital program for Fiscal Years 2018-2023 (the "Proposed Capital Program") was submitted by the Mayor to City Council on March 2, 2017. The Proposed Capital Program is included as part of the Proposed Twenty-Sixth Five-Year Plan and contemplates a total budget of approximately \$9.56 billion. In the Proposed Capital Program, approximately \$3.33 billion is expected to be provided from federal, Commonwealth, and other sources and the remainder through City funding.

## LITIGATION

Generally, judgments and settlements on claims against the City are payable from the General Fund, except for claims against the Water Department, the Division of Aviation, and PGW, which are paid out of their respective funds or revenues and only secondarily out of the General Fund.

The Act of October 5, 1980, P.L. 693, No. 142, known as the "Political Subdivision Tort Claims Act," (the "Tort Claims Act") establishes a \$500,000 aggregate limitation on damages for injury to a person or property arising from the same cause of action or transaction or occurrence or series of causes of action, transactions or occurrences with respect to governmental units in the Commonwealth such as the City. The constitutionality of that aggregate limitation on damages has been previously upheld by the Pennsylvania appellate courts, including in the recent decision of the Supreme Court of Pennsylvania in *Zauflik v. Pennsbury School District*, 104 A.3d 1096 (2014). Under Pennsylvania Rule of Civil Procedure 238, delay damages are not subject to the \$500,000 limitation. The limit on damages is inapplicable to any suit against the City that does not arise under state tort law, such as claims made against the City under federal civil rights laws. In two instances over the last several years, legislation has been introduced in the General Assembly that would have increased such \$500,000 limitation. In both such instances, the legislation was not reported out of committee or scheduled for a vote.

## General Fund

The following table presents the City's aggregate losses from settlements and judgments paid out of the General Fund for Fiscal Years 2012-2016 and the budgeted amount for Fiscal Year 2017.

**Table 49**  
**Aggregate Losses – General and Special Litigation Claims (General Fund)**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Budget)**  
**(Amounts in Millions of USD)**

	Actual 2012	Actual 2013	Actual 2014	Actual 2015	Actual 2016	Budget 2017
Aggregate Losses	\$32.6	\$30.3	\$41.0	\$37.3	\$41.2	\$40.3

Sources: The City, Office of Budget and Program Evaluation – Budget Bureau, Indemnity Account, Status Reports.

For Fiscal Year 2017, the current estimate of settlements and judgments from the General Fund is \$40.6 million. Such estimate is based on the Law Department's internal calculations using (i) the "Possible Costs" listed in its Quarterly Litigation Reports, (ii) the 3-year average cost for closed cases, and (iii) current year to date spending reports. Based on the Proposed Twenty-Sixth Five-Year Plan, the current estimate of settlements and judgments from the General Fund for Fiscal Years 2018-2022 is \$44.9 million for each such Fiscal Year.

In budgeting for settlements and judgments in the annual operating budget and projecting settlements and judgments for each five-year plan, the City bases its estimates on past experience and on an analysis of estimated potential liabilities and the timing of outcomes, to the extent a proceeding is sufficiently advanced to permit a projection of the timing of a result. General and special litigation claims are budgeted separately from back-pay awards and similar settlements relating to labor disputes. Usually, some of the costs arising from labor litigation are reported as part of current payroll expenses.

In addition to routine litigation incidental to performance of the City's governmental functions and litigation arising in the ordinary course relating to contract and tort claims and alleged violations of law, certain special litigation matters are currently being litigated and/or appealed and adverse final outcomes of such litigation could have a substantial or long-term adverse effect on the General Fund. These proceedings involve: (i) environmental-related actions and proceedings in which it has been or may be alleged that the City is liable for damages, including but not limited to property damage and bodily injury, or that the City should pay fines or penalties or the costs of response or remediation, because of the alleged generation, transport, or disposal of toxic or otherwise hazardous substances by the City, or the alleged disposal of such substances on or to City-owned property; (ii) contract disputes and other commercial litigation; (iii) union arbitrations and other employment-related litigation; (iv) potential and certified class action suits; and (v) civil rights litigation. The ultimate outcome and fiscal impact, if any, on the General Fund of the claims and proceedings described in this paragraph are not currently predictable.

In addition, see "REVENUES OF THE CITY – Other Taxes," for a discussion of litigation relating to the Philadelphia Beverage Tax.

## Water Fund

Various claims have been asserted against the Water Department and in some cases lawsuits have been instituted. Many of these Water Department claims have been reduced to judgment or otherwise settled in a manner requiring payment by the Water Department. The following table presents the Water Department's aggregate losses from settlements and judgments paid out of the Water Fund for Fiscal Years 2012-2016 and the budgeted amount for Fiscal Year 2017. The Water Fund is the first source of payment for any of the claims against the Water Department.

**Table 50**  
**Aggregate Losses – General and Special Litigation Claims (Water Fund)**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Budget)**  
**(Amounts in Millions of USD)**

	Actual 2012	Actual 2013	Actual 2014	Actual 2015	Actual 2016	Budget 2017
Aggregate Losses	\$3.1	\$5.1	\$6.1	\$3.8	\$5.4	\$6.5

Sources: The City, Office of Budget and Program Evaluation – Budget Bureau, Indemnity Account, Status Reports.

## Aviation Fund

Various claims have been asserted against the Division of Aviation and in some cases lawsuits have been instituted. Many of these Division of Aviation claims have been reduced to judgment or otherwise settled in a manner requiring payment by the Division of Aviation. The following table presents the Division of Aviation's aggregate losses from settlements and judgments paid out of the Aviation Fund for Fiscal Years 2012-2016 and the budgeted amount for Fiscal Year 2017. The Aviation Fund is the first source of payment for any of the claims against the Division of Aviation.

**Table 51**  
**Aggregate Losses – General and Special Litigation Claims (Aviation Fund)**  
**Fiscal Years 2012-2016 (Actual) and 2017 (Budget)**

	Actual 2012	Actual 2013	Actual 2014	Actual 2015	Actual 2016	Budget 2017
Aggregate Losses	\$1.3 million	\$1.4 million	\$665,527	\$750,793	\$1.3 million	\$2.5 million

Sources: The City, Office of Budget and Program Evaluation – Budget Bureau, Indemnity Account, Status Reports.

## PGW

Various claims have been asserted against PGW and in some cases lawsuits have been instituted. Many of these PGW claims have been reduced to judgment or otherwise settled in a manner requiring payment by PGW. The following table presents PGW's settlements and judgments paid out of PGW revenues, with accompanying reserve information, in PGW Fiscal Years 2012 through 2016. PGW revenues are the first source of payment for any of the claims against PGW. PGW currently estimates approximately \$5.8 million in settlements and judgments for PGW Fiscal Year 2017.

**Table 52**  
**Claims and Settlement Activity (PGW)**  
**PGW Fiscal Years 2012-2016**  
**(Amounts in Thousands of USD)**

Fiscal Year (ending August 31)	Beginning of Year Reserve	Current Year Claims and Adjustments	Claims Settled	End of Year Reserve	Current Liability Amount
2012	\$10,697	\$3,725	(\$3,320)	\$11,102	\$7,664
2013	\$11,102	\$2,616	(\$3,307)	\$10,411	\$4,925
2014	\$10,411	\$2,498	(\$2,965)	\$9,944	\$4,728
2015	\$9,944	\$3,610	(\$2,042)	\$11,512	\$5,011
2016	\$11,512	\$2,022	(\$3,041)	\$10,493	\$5,307

Source: PGW's audited financial statements.

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## **APPENDIX B**

### **CITY SOCIOECONOMIC INFORMATION**

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## INTRODUCTION

The city of Philadelphia (the “City” or “Philadelphia”) is the fifth largest city in the nation by population, and is at the center of the United States’ seventh largest metropolitan statistical area, according to 2016 American Community Survey estimates. The Philadelphia MSA (further described below) includes a substantial retail sales market, as well as a diverse network of business suppliers and complementary industries. Some of the City’s top priorities include attracting and retaining knowledge workers, increasing educational attainment and employment skills among Philadelphians, attracting real estate development, and promoting Philadelphia as a desirable location for business.

According to the 2010 U.S. Census, the City increased its population by 0.7% to 1.53 million residents in the ten years from 2000 to 2010, ending six decades of population decline. Although the increase was modest, it was an indicator of more recent growth and development in Philadelphia. From 2010 to 2016, the City increased its population by 2.6% to 1.57 million residents, which exceeded the rate of population growth projected by the Philadelphia City Planning Commission in its 2011 comprehensive plan.

Although facing challenges such as underfunded pension liabilities, low estimated General Fund balances in Fiscal Years 2017-2022, high rates of poverty, and the School District of Philadelphia’s (the “School District”) ongoing fiscal challenges, the City benefits from its strategic geographical location, relative affordability, cultural and recreational amenities, and its growing strength in key industries.

### Geography

The City has an area of approximately 134 square miles, and is located along the southeastern border of the Commonwealth of Pennsylvania (the “Commonwealth”), at the confluence of the Delaware and Schuylkill Rivers. The City, highlighted in orange in Figure 1, lies at the geographical and economic center of the MSA and PMSA (described below). Philadelphia is both the largest city and the only city of the first class in the Commonwealth, and is coterminous with the County of Philadelphia.

*Philadelphia Metropolitan Statistical Area (the “MSA”)*, highlighted in blue in Figure 1, is the eleven-county area named the Philadelphia-Camden-Wilmington metropolitan statistical area, representing an area of approximately 5,118 square miles with approximately 6,070,500 residents according to 2016 estimates by the U.S. Census Bureau.<sup>1</sup>

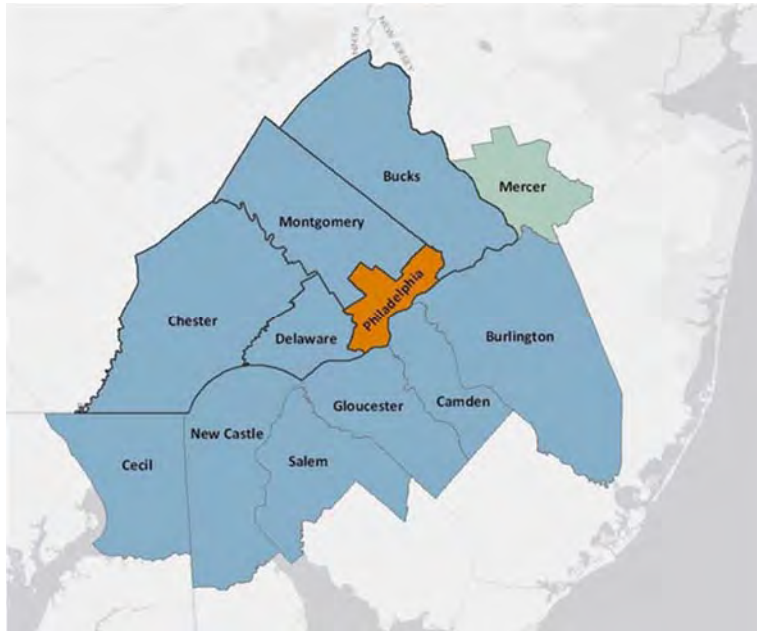
*Philadelphia Primary Metropolitan Statistical Area (the “PMSA”)*, highlighted with bold black outlines, in Figure 1, is a five-county area within the MSA that lies in the Commonwealth and is sometimes called the Philadelphia Metropolitan Division. The counties of Bucks, Chester, Delaware, and Montgomery are referred to as the Suburban PMSA herein.

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<sup>1</sup> Due to its close proximity and impact on the region’s economy, Mercer County, New Jersey, highlighted in green in Figure 1, is included in the MSA by many regional agencies, although it is not included in the area defined by the U.S. Office of Management and Budget.

**Figure 1**  
**Map of Philadelphia Region including the MSA, PMSA, and Mercer County, NJ**



Source: 2009 TIGER County Shapefiles

### **Strategic Location**

Philadelphia is at the center of the second largest MSA on the East Coast, and is served by a robust transportation infrastructure, including: the Philadelphia International Airport, Amtrak's Northeast Corridor rail service, major interstate highway access, regional train service provided by Southeastern Pennsylvania Transportation Authority ("SEPTA") and New Jersey's PATCO (as defined herein), and the Port of Philadelphia. Due to the transportation infrastructure centered in the City, Philadelphia is accessible to regional and international markets, and is within a day's drive of 50% of the nation's population. Philadelphia's central location along the East Coast, an hour from New York City and less than two hours from Washington, D.C. by high-speed rail, also allows for convenient access to these significant economic centers.

Essential to Philadelphia's strategic location is the region's access to public transit. The U.S. Census reports that 26.5% of Philadelphians used public transit to commute to work in 2014. SEPTA regional rail service had record ridership in Fiscal Year 2015, and SEPTA public transit modes collectively had an average annual aggregate ridership increase of 1.2% from fiscal years 2006-2015.

### **Population and Demographics**

Philadelphia is the nation's fifth most populous city, with 1.57 million residents, based on 2016 U.S. Census estimates. The 2000 and 2010 U.S. Census reflect the City's first population gain in 60 years. The City's population reached its nadir in 2006 with 1.45 million residents. Philadelphia's population has increased by nearly 119,428 residents from 2006 – 2016, or by 8.25%.

From 2006 to 2012, the share of the population represented by citizens age 20 to 34 grew from 20% to 26%, becoming the largest share of Philadelphia's population. Of the 30 largest cities in the country, Philadelphia had the largest percentage point increase of millennials as a share of overall population from 2006 to 2012. This demographic tends to be better educated than the City's and the

nation's adult population as a whole. In 2015, 41.3% of 25- to 34-year-olds in Philadelphia held a bachelor's degree or higher, while only 34.1% of 25 to 34-year-olds in the United States were college graduates. The City's many universities and diverse employment opportunities are likely draws for residents in the 20 to 34 age group. In addition to an increase in the millennial population, the City's immigrant population also grew significantly, with the City's Asian population increasing 161.4% and the Hispanic or Latino population growing by 164.6% from 2000 to 2014, according to the US Census Bureau.

**Table 1**  
**Population: City, MSA, Pennsylvania & Nation**

	<b>1990</b>	<b>2000</b>	<b>2010</b>	<b>2016</b>	<b>Percent Change 2000-2010</b>	<b>Percent Change 2010-2016</b>
Philadelphia	1,585,577	1,517,550	1,528,427	1,567,872	0.7%	2.6%
Philadelphia-Camden- Wilmington MSA	5,435,468	5,687,147	5,972,049	6,070,500	5.0%	1.6%
Pennsylvania	11,881,643	12,281,054	12,712,343	12,784,227	3.5%	0.6%
United States	248,709,873	281,421,906	309,348,193	321,127,513	9.9%	4.5%

Source: U.S. Census Bureau, Population Estimates 2016, Census 2010, Census 2000, Census 1990.

Nearly 27% of Philadelphia's population is school-aged (aged 5-17), and in 2015, Philadelphia exceeded many selected peer cities in its share of students who are enrolled in an undergraduate, graduate or professional education program. Selected peer cities (as shown in Table 2) reflect characteristics consistent with Philadelphia, such as geography, socio-economic statistics, industrial legacies, or port facilities. Among these cities, while Boston had the highest percentage of its population enrolled in higher education, Philadelphia had 37,315 more students enrolled in higher education than Boston. Philadelphia had the sixth highest percentage of its population enrolled in higher education and the fifth largest university student population.

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**Table 2**  
**2015 Total Number of Students, as a Percent of Total Population of Selected Cities,**  
**Ranked by Total Number of Students Enrolled in Higher Education**

	<b>Total Number of Students Enrolled in School (all years)</b>	<b>Total Number of Students Enrolled in Higher Education</b>	<b>Percent of All Students Enrolled in Higher Education</b>	<b>Percent of Total Population Enrolled in Higher Education</b>
Los Angeles, CA	1,034,553	357,488	34.55%	9.04%
Chicago, IL	680,596	221,655	32.57%	8.67%
Houston, TX	609,644	159,906	26.23%	7.30%
San Diego	376,271	155,714	41.38%	11.27%
Philadelphia, PA	402,440	140,412	34.89%	9.65%
San Antonio, TX	403,558	110,739	27.44%	8.33%
Boston, MA	188,623	103,097	54.66%	17.09%
Phoenix, AZ	410,290	91,924	22.40%	6.72%
Washington, DC	166,940	76,339	45.73%	11.78%
Baltimore, MD	156,644	53,524	34.17%	9.89%
Milwaukee, WI	176,509	49,857	28.25%	10.03%
Detroit, MI	163,368	45,632	27.93%	7.95%
Memphis, TN	181,285	48,901	26.97%	7.56%
Cleveland, OH	99,028	28,664	28.95%	7.56%
United States	81,618,288	22,656,979	27.76%	7.52%

Source: 2015 American Community Survey, 1-Year Estimates.

## ECONOMIC BASE AND EMPLOYMENT

### The Philadelphia Economy

The City's economy is composed of diverse industries, with virtually all classes of industrial and commercial businesses represented. The City is a major regional business and personal services center with strengths in insurance, law, finance, health, education, utilities, and the arts. As of 2013, approximately 182,600 residents of the Philadelphia region's four suburban counties (Bucks, Chester, Delaware, and Montgomery), and an additional 129,000 residents of counties outside the five-county region, worked within the City. The City also provides a destination for entertainment, arts, dining and sports for residents of the suburban counties, as well as for those residents of the counties comprising the MSA plus Mercer County, New Jersey.

As shown in Table 11 later in this APPENDIX B, the cost of living in the City is relatively moderate and affordable compared to other major metropolitan areas along the East Coast. Philadelphia's cost of living is 20% less than the Washington D.C. metropolitan area and 61% less than Manhattan. The City, as one of the country's education centers, offers the business community a large, diverse, and industrious labor pool.

### Key Industries

Table 3 provides location quotients for Philadelphia's most concentrated industry sectors. Location quotients quantify how concentrated a particular industry is in a region as compared to a base reference area, usually the nation. A location quotient greater than 1.00 indicates an industry with a greater share of the local area employment than is the case in the reference area.

As shown in Table 3, compared to the nation, Philadelphia County has higher concentrations in eight sectors: 1. educational services; 2. health care and social assistance; 3. management of companies and enterprises; 4. arts, entertainment, and recreation; 5. finance and insurance; 6. professional and technical services; 7. other services, and 8. transportation and warehousing.<sup>2</sup> Of these eight sectors, the City has a higher concentration of employment than the Commonwealth in six sectors: educational services; health care and social assistance; arts, entertainment and recreation; finance and insurance; professional and technical services; and other services.

**Table 3**  
**Ratio of Philadelphia County and Pennsylvania Industry Concentrations**  
**Compared to the United States**

<b>Industry</b>	<b>Philadelphia County to the US</b>	<b>Pennsylvania to the US</b>
Educational Services	4.32	1.51
Health Care and Social Assistance	1.73	1.22
Management of Companies and Enterprises	1.27	1.42
Arts, Entertainment, and Recreation	1.20	1.01
Finance and Insurance	1.16	1.05
Professional and Technical Services	1.13	0.92
Other Services	1.12	1.06
Transportation and Warehousing	1.10	1.18

Source: Bureau of Labor Statistics: 2015 Location Quotient, Quarterly Census of Employment and Wages Data.

Industry Location Quotients are calculated by comparing the industry's share of regional employment with its share of national employment.

The concentration of educational services not only provides stable support to the local economy, but also generates a steady and educated workforce, fueling the City's professional services and healthcare industries. In a 2014 Campus Philly report "Choosing Philadelphia," 51% of non-native students, and 76% of native graduates from the region, chose to live in Philadelphia directly after graduation.

The City is also capitalizing on the region's assets to become a leader in research generated by life sciences and educational institutions. Several sites now foster life science incubator facilities, including The Navy Yard, University City Science Center, University of Pennsylvania, Children's Hospital of Philadelphia, Jefferson Hospital, Drexel University, and The Wistar Institute. The University of Pennsylvania's Penn Center for Innovation and Temple University's Office of Technology Development and Commercialization are two of several organizations driving tech transfer and commercialization of innovations developed at Philadelphia's major research institutions. uCity Square is a new development that was announced in Fall 2016. When the project is complete, estimated for 2027, this large-scale development project will expand the one million square feet in facilities offered by the University City Science Center to 6 million square feet, with a projected investment of over \$1 billion.

<sup>2</sup> The Bureau of Labor Statistics ("BLS") defines the "Other Services" (except Public Administration) sector as establishments engaged in providing services not specifically provided for elsewhere in the BLS classification system, such as equipment and machinery repairing, promoting or administering religious activities, grantmaking, advocacy, providing dry cleaning and laundry services, personal care services, death care services, pet care services, photofinishing services, temporary parking services, and dating services.

## Employment

Table 4 shows non-farm payroll employment in the City over the last decade by industry sectors. In the past 10 years, growth has occurred in Trade, Transportation, and Utilities; Professional and Business Services; Education and Health Services; and Leisure and Hospitality. These sectors provide stability to the City's overall economy. Despite a 10% contraction within the sector over the last decade, Government remains the second largest sector by number of employees.

**Table 4**  
**Philadelphia Non-Farm Payroll Employment<sup>1</sup> (Amounts in Thousands)**

Sector	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% Change 2006-15	Average Annual % Change
Leisure and Hospitality	58.0	58.0	57.9	56.9	58.4	60.6	63.2	64.8	66.9	68.1	17.4%	1.9%
Education and Health Services	187.7	192.4	196.7	199.5	202.3	206.4	208.1	209.3	212.7	217.2	15.7%	1.7%
Professional and Business Services	84.2	85.8	85.3	80.1	81.6	83.0	84.1	86.4	88.3	90.3	7.2%	0.8%
Trade, Transportation, and Utilities	88.5	87.8	87.6	85.9	86.6	87.4	88.9	89.5	90.9	92.9	5.0%	0.6%
Other Services	28.2	28.0	27.8	26.6	26.5	26.4	26.8	26.9	26.8	27.4	-2.8%	-0.3%
Mining, Logging, and Construction	12.4	11.9	12.1	10.1	10.0	10.0	10.2	10.4	11.0	11.5	-7.3%	-0.8%
Information	12.8	12.6	12.5	12.6	12.2	12.0	12.0	11.5	11.5	11.8	-7.8%	-0.9%
Financial Activities	47.7	47.1	46.5	44.9	42.6	41.6	41.0	41.1	41.7	42.4	-11.1%	-1.2%
Manufacturing	29.9	28.5	27.8	25.7	24.7	23.7	22.9	21.8	21.5	21.1	-29.4%	-3.3%
Private Sector Total	549.4	552.1	554.2	542.3	544.9	551.1	557.2	561.7	571.3	582.7	6.1%	0.7%
Government	113.2	110.6	109.2	110.4	112.1	109.0	105.3	103.5	102.2	101.8	-10.1%	-1.1%
Total	662.6	662.7	663.4	652.7	657.0	660.1	662.5	665.2	673.5	684.5	3.3%	0.4%

Source: Bureau of Labor Statistics, 2015.

<sup>1</sup> Includes persons employed within the City, without regard to residency.

**Table 5**  
**Philadelphia Change in Share of Employment Sectors<sup>1</sup>, Ranked by Percent Change of Share**

Sector	Share of Total Employment 2006	Share of Total Employment 2015	Percent Change of Share 2006-2015
Leisure and Hospitality	8.8%	9.9%	13.7%
Education and Health Services	28.3%	31.7%	12.0%
Professional and Business Services	12.7%	13.2%	3.8%
Trade, Transportation, and Utilities	13.4%	13.6%	1.6%
Other Services	4.3%	4.0%	-5.9%
Mining, Logging, and Construction	1.9%	1.7%	-10.2%
Information	1.9%	1.7%	-10.8%
Financial Activities	7.2%	6.2%	-14.0%
Manufacturing	4.5%	3.1%	-31.7%
Private Sector Total	82.9%	85.1%	2.7%
Government	17.1%	14.9%	-12.9%

Source: Bureau of Labor Statistics, 2015.

<sup>1</sup> Includes persons employed within the City, without regard to residency.

Preliminary Bureau of Labor Statistics data show that in 2015, the Education and Health Services, Professional and Business Services, Financial Activities, and Leisure and Hospitality sectors collectively represented 61.1% of total employment in the City for the year, and 76.9% of total private sector wages. From 2010 to 2015, Philadelphia has created 40,000 private sector jobs since losing nearly 12,000 private jobs at the peak of the recession in 2009.

## Unemployment

Although Philadelphia has recently narrowed the gap between its unemployment levels and the national unemployment levels, the effects of the recession on unemployment endured longer in Philadelphia than in many other parts of the country.

As shown in Table 6, employment gains in the latter part of 2013 through 2015 have resulted in a decline in Philadelphia's unemployment rate from a high of 10.9% in 2012 to 6.9% in 2015.

Table 6 below shows unemployment information for Philadelphia, the MSA, the Commonwealth and the United States.

**Table 6**  
**Unemployment Rate in Selected Geographical Areas**  
**(Annual Average 2006-2015)**

<b>Geographical Area</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Change in rate from 2006-2015</b>
United States	4.6	4.6	5.8	9.3	9.6	8.9	8.1	7.4	6.2	5.3	0.7
Pennsylvania	4.7	4.3	5.3	7.9	8.5	7.9	7.9	7.4	5.9	5.1	0.4
Philadelphia- Camden- Wilmington MSA	4.5	4.3	5.3	8.3	8.8	8.5	8.4	7.7	6.2	5.3	0.8
Philadelphia	6.2	6.1	7.1	9.7	10.6	10.7	10.9	10.3	8.1	6.9	0.7

Source: Local Area Unemployment Statistics, Bureau of Labor Statistics

## Principal Private Sector Employers in the City

Table 7 lists Philadelphia's 15 largest private sector employers by number of employees. Five are hospitals and providers of other medical services, four are renowned universities, and three are in the finance and insurance industry. Other sectors represented include food services, bio-tech, and broadcasting/cable.

Fortune 500 companies headquartered or maintaining a major presence in Philadelphia include: the Comcast Corporation, Cigna Corporation, Aramark Corporation, Crown Holdings Inc., and Lincoln National. As of 2015, four Fortune 1000 companies are also headquartered within the City: FMC Corporation, Urban Outfitters Inc., Chemtura and Pep Boys.

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**Table 7**  
**Principal Private Sector Employers**  
**Ranked by Number of Employees in Philadelphia(as of October, 2016)**

<b>Employer</b>	<b>Sector</b>	<b>Employees within Philadelphia</b>
University of Pennsylvania	Education	21,193
University of Pennsylvania Health System	Health	15,956
Children's Hospital of Philadelphia	Health	11,895
Temple University Hospital, Inc.	Health	9,030
Temple University	Education	8,674
Comcast Corporation <sup>1</sup>	Media/IT	8,000
Thomas Jefferson University Hospitals	Health	7,825
Drexel University	Education	6,291
Aramark Corporation	Food Service	6,207
Albert Einstein Medical	Health	5,323
American Airlines	Transportation	5,198
Thomas Jefferson University	Education	4,547
Independence Blue Cross	Insurance	3,554
PNC Bank N.A.	Finance	1,883
Ace Insurance Company	Insurance	1,512
GlaxoSmithKline LLC	Bio-tech	1,376
<b>Total</b>		<b>118,464</b>

Source: City of Philadelphia Department of Commerce

<sup>1</sup> Employment data for Comcast Corporation are an estimate provided by Comcast Corporation, May 2015. This estimate includes approximately 2,000 contract workers.

## **Hospitals and Medical Centers**

The City is a center for health, education, research and science facilities with the nation's largest concentration of healthcare resources within a 100-mile radius. There are presently more than 30 hospitals, five medical schools, two dental schools, two pharmacy schools, as well as schools of optometry, podiatry and veterinary medicine located in the City. The City is one of the largest health care and health care education centers in the world, and a number of the nation's largest pharmaceutical companies are located in the Philadelphia area.

Major research facilities are also located in the City, including those located at its universities and medical schools: Children's Hospital of Philadelphia, the Hospital of the University of Pennsylvania, The Wistar Institute, the Fox Chase Cancer Center, and the University City Science Center. Philadelphia is home to two of the nation's 41 National Cancer Institute ("NCI")-designated Comprehensive Cancer Centers (the Abramson Cancer Center at the University of Pennsylvania and Fox Chase Cancer Center, which is part of the Temple University Health System). Additionally, Philadelphia is also home to two NCI-designated Cancer Centers (Kimmel Cancer Center and The Wistar Institute Cancer Center).

### *Penn Medicine University of Pennsylvania Health System*

Penn Medicine includes Pennsylvania Hospital, the nation's first hospital, founded in 1751 and the nation's first medical school, the University of Pennsylvania School of Medicine, opened in 1765. In addition, the Hospital of the University of Pennsylvania was established in 1874 as the nation's first teaching hospital. Penn Medicine's hospitals have been named among the top ten hospitals in the country with the combined University of Pennsylvania and Penn Presbyterian Medical Center ranked #1 in the region by *U.S. News and World Report*. Penn Medicine, which has invested more than \$200 million in major capital investments between 2014 and 2015, began construction in 2016 on a new 1.5 million square foot Patient Pavilion, a new clinical facility that is projected to be occupied by spring of 2021.



### *Children's Hospital of Philadelphia Expansion*

Top-ranked Children's Hospital of Philadelphia ("CHOP") is the oldest children's hospital in the nation and one of the largest in the world. Since 2002, CHOP has invested over \$2.6 billion in its expansion in Philadelphia. CHOP recently approved an additional \$2.7 billion expansion in Philadelphia through 2017. In fall of 2015, phase one of the \$500 million, 700,000 square foot Buerger Center for Advanced Pediatric Care was completed; the last few levels within phase two will open in 2017.

### *Temple University Hospital, Inc.*

Temple University Hospital (TUH) is one of the region's most respected academic medical centers. The 722-bed Philadelphia hospital is also the chief clinical training site for the Lewis Katz School of Medicine at Temple University. TUH was ranked among the "Best Regional Hospitals" in six different specialties in *U.S. News & World Report* 2014-2015 regional rankings.

### *Thomas Jefferson University and Jefferson Health*

Thomas Jefferson University Hospital has been at the top of the list of hospitals in Pennsylvania (3rd) and the Philadelphia metro area (2nd) in *U.S. News & World Report's* annual listing of the best hospitals and specialties. Jefferson Health has recently participated in two significant mergers, integrating the Aria Health system and Abington Hospital into its system. Thomas Jefferson University is currently in the process of acquiring Philadelphia University.

### *Einstein Healthcare Network*

Einstein Healthcare Network is a private, not-for-profit organization with several major facilities and many outpatient centers that has been in existence for nearly 150 years. The Einstein Health and Medical Center in Philadelphia has been listed as a top hospital in *U.S. News & World Report*.

Table 8 lists the top ten recipients of funding from the National Institutes of Health ("NIH") in fiscal year 2015, in order of total funding received. The University of Pennsylvania ("Penn") was the fourth largest recipient of NIH funding in 2015 and consistently places near the top of this list.

**Table 8**  
**Largest Recipients of National Institutes of Health Funding, FY2016**

	<b>Organization</b>	<b>City</b>	<b>State</b>	<b>Awards</b>	<b>Funding</b>
1	Johns Hopkins University	Baltimore	MD	1297	\$650,878,713
2	University of California, San Francisco	San Francisco	CA	1208	\$577,576,919
3	University of Michigan	Ann Arbor	MI	1106	\$486,690,808
4	University of Pennsylvania	Philadelphia	PA	1107	\$478,866,008
5	University of Pittsburgh, Pittsburgh	Pittsburgh	PA	1053	\$475,851,374
6	University of Washington	Seattle	WA	885	\$458,217,212
7	Stanford University	Stanford	CA	944	\$427,012,784
8	Duke University	Durham	NC	778	\$416,881,431
9	Univ. of North Carolina Chapel Hill	Chapel Hill	NC	871	\$412,385,487
10	Yale University	New Haven	CT	924	\$407,245,439

Source: National Institutes of Health, 2016

## **Educational Institutions**

The MSA plus Mercer County, New Jersey, has the second largest concentration of undergraduate and graduate students on the East Coast, with 101 degree granting institutions of higher education and a total enrollment of over 434,000 full and part-time students. Approximately 149,000 students lived within the geographic boundaries of the City in 2015. Included among these institutions are the University of Pennsylvania, Temple University, Drexel University, St. Joseph's University, and LaSalle University. Within a short drive from the City are such schools as Princeton University, Villanova University, Bryn Mawr College, Haverford College, Swarthmore College, Lincoln University, and the Camden Campus of Rutgers University.

### *University of Pennsylvania*

Penn, the first university in the U.S., founded in 1740, and a prominent Ivy League institution, is located in West Philadelphia across the Schuylkill River from downtown Philadelphia. In Fall 2016, more than 21,000 full-time undergraduate, graduate and professional full-time students attended Penn, 5,000 of which are international students. Approximately 3,600 part-time students were enrolled. As of December 2016, Penn had a total workforce of over 17,500 faculty and staff, and the University of Pennsylvania Health System had a workforce of 21,626 employees. In September 2016, Penn opened Pennovation Works, a 55,000 square foot business incubator and laboratory that houses researchers, innovators, and entrepreneurs for the commercialization of research discoveries.

Penn has undergone significant expansion in the last decade and has a growing endowment currently valued at \$10.7 billion. In 2015, Penn, and related third-party developers, spent \$932 million dollars on new buildings and renovations. A recent independent report conducted by Econsult Solutions, Inc. found that Penn and Penn Medicine had a combined economic impact on the City and state of more than \$14 billion in fiscal year 2015 including \$10.8 billion to the City. According to the same study, Penn generates \$1 out of every \$20 of Philadelphia's general fund and one out of every nine jobs in the Philadelphia economy.

### *Drexel University*

Founded in 1891 as the Drexel Institute of Science, Art and Industry, Drexel University ("Drexel") is one of Philadelphia's top 10 private employers, and a major engine for economic development in the region. Drexel is known for its innovation and civic engagement, ranked a "top 15 most innovative school" by *U.S. News and World Report*. Drexel's student body consists of approximately 26,000, making it one of the 15 largest private universities in the country. Drexel is unique in that it provides its students with a co-op work experience every six months throughout the four year college experience. Over the last decade, Drexel has undergone significant expansion and has major plans for future development. In 2011, Drexel opened the doors to the \$69 million Constantine N. Papadakis Integrated Sciences Building, a \$92 million facility for its LeBow School of Business, and a new mixed use residential and retail project, Chestnut Square.

### *Temple University*

Temple University ("Temple"), founded in 1884, has undergone a significant transformation over the past three decades from a university with a mostly commuter-based enrollment to one in which on and near-campus housing is now in high demand. Temple features 17 schools and colleges, eight campuses, hundreds of degree programs and more than 38,000 students. Currently, an estimated 12,000 students live on or around the Temple campus. Temple's Board of Trustees approved a master plan, "Visualize Temple," in December 2014, and Temple has begun \$1.2 billion of investment. Planned upgrades include

improved green space, a student recreation facility, and academic buildings such as a library and a new science research lab.

### Family and Household Income

Table 9 shows median family income, which includes related people living together, and Table 10 shows median household income, which includes unrelated individuals living together, for Philadelphia, the MSA, the Commonwealth and the United States. Over the period 2006-2015, median family income for Philadelphia increased by 14.7% (see Table 9), while median household income increased by 24.1% over the period 2006-2015 as a result of an influx of higher income households (see Table 10).

**Table 9**  
**Median Family Income\* for Selected Geographical Areas, 2006-2015**  
**(Dollar Amounts in Thousands)**

Year	Philadelphia	Philadelphia-Camden-Wilmington MSA	Pennsylvania	United States	Philadelphia as a percentage of the US
2006	\$43.0	\$70.8	\$58.1	\$58.5	73.50%
2007	\$44.9	\$74.0	\$60.8	\$61.2	73.37%
2008	\$46.4	\$77.6	\$63.3	\$63.4	73.19%
2009	\$45.7	\$76.9	\$62.2	\$61.1	74.96%
2010	\$43.1	\$74.5	\$61.9	\$60.6	71.12%
2011	\$42.7	\$75.7	\$63.3	\$61.5	69.43%
2012	\$44.3	\$77.0	\$65.1	\$62.5	70.88%
2013	\$44.6	\$78.2	\$66.5	\$64.0	69.69%
2014	\$47.0	\$80.6	\$67.9	\$65.9	71.32%
2015	\$49.3	\$83.0	\$70.2	\$68.3	72.18%
Change 2006-2015	\$6.3	\$12.2	\$12.1	\$9.8	

\* Includes related people living together.

Source: 2015 American Community Survey 1-Year Estimates

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**Table 10**  
**Median Household Income\* for Selected Geographical Areas, 2006-2015**  
**(Dollar Amounts in Thousands)**

Year	Philadelphia	Philadelphia-Camden-Wilmington MSA	Pennsylvania	United States	Philadelphia as a percentage of the US
2006	\$33.2	\$55.6	\$46.3	\$48.5	68.45%
2007	\$35.4	\$58.3	\$48.6	\$50.7	69.82%
2008	\$37.0	\$60.9	\$50.7	\$52.0	71.15%
2009	\$37.0	\$60.1	\$49.5	\$50.2	73.71%
2010	\$34.4	\$58.1	\$49.3	\$50.0	68.80%
2011	\$34.2	\$58.3	\$50.2	\$50.5	67.72%
2012	\$35.4	\$60.1	\$51.2	\$51.4	68.87%
2013	\$36.8	\$60.5	\$52.0	\$52.3	70.36%
2014	\$39.0	\$62.2	\$53.2	\$53.7	72.63%
2015	\$41.2	\$65.1	\$55.7	\$55.8	73.84%
Change 2006-2015	\$8.0	\$9.5	\$9.4	\$7.3	2006-2015

\* Includes unrelated people living together.

Source: 2015 American Community Survey 1-Year Estimates

One of the factors that contributes to a lower median household income is the fact that Philadelphia has the fifth largest undergraduate and graduate student population among major U.S. cities. These individuals, numbering approximately 140,412 according to the 2015 American Community Survey, or approximately 9.65% of the City's overall population, generally have very low or no income, as they are either unemployed or working only part-time while they complete their education. The City's large student population has historically led to an overstatement of the City's percentage of residents living at or below the poverty level.

### Cost of Living Index

Philadelphia has the second lowest cost of living index among major cities in the Northeast, as shown in Table 11 below. Additionally, the City's Wage, Earnings, and Net Profits Tax Rates have decreased in Fiscal Years 2014 and 2015. See "REVENUES OF THE CITY – Wages, Earnings, and Net Profits Taxes" in APPENDIX A for this Official Statement.

**Table 11**  
**2015 Cost of Living Index\* of Cities in the Northeastern U.S.**

Metropolitan Area	Cost of Living Index
New York (Manhattan)	228.2
Washington-Arlington-Alexandria	149.2
Boston-Cambridge-Quincy	148.1
Philadelphia-Camden-Wilmington	118.6
Baltimore-Towson	115.6

\* Data reflects Q3 2015 – Q3 2016

Source: 2016 ACCRA Cost of Living Index

## Housing

For purposes of the information included under this “Housing” subheading, the City engaged an outside consultant, Kevin C. Gillen, Ph.D., who prepared the text and tables below and conducted the analysis related thereto. As a professional in the field of urban and real estate economics, the City has relied on the analysis Dr. Gillen has provided below, but makes no representations regarding the accuracy of the findings set forth herein.

Philadelphia is a post-industrial city located in the northeast corridor of the U.S. between New York and Baltimore. Its housing stock is among the oldest of any city in the country, and has suffered from decades of depopulation and abandonment during the postwar era. Like many U.S. cities, Philadelphia has also undergone a significant revitalization in the past 25+ years, particularly in and around its downtown core of Center City. Philadelphia experienced a net population increase in the most recent Census for the first time since 1950, which was overwhelmingly due to new household growth in these aforementioned neighborhoods.

As population has continued to increase, many neighborhoods have undergone significant new construction and investment, leading to increases in the value of the City’s housing stock, while large parts of the rest of the City continue to face significant challenges caused by the persistent problems of poverty, crime, underperforming schools and lack of employment opportunities. Most housing indicators for Philadelphia indicate a positive outlook for the near future.

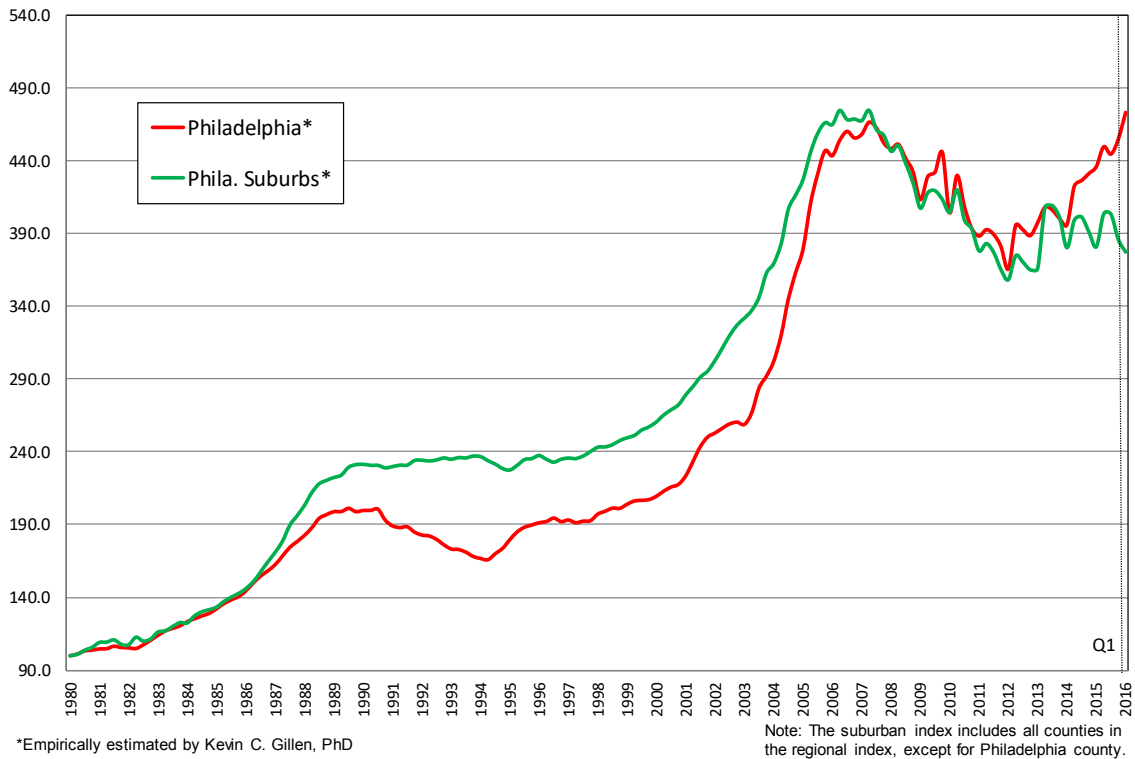
The total housing stock, measured by the number of properties, increased by 3.3% from 2010-2015, for a total of 500,374 in 2015. While both single-family and multi-family unit stock increased over this five year period, the number of multi-family (structures with five or more dwelling units) units decreased by approximately 56.3% from 2010 to 2015. The homeownership rate in the City in 2015 was 52.9%, which represents a 7.2% decline over the prior five-year period. Alternatively, the rental market in the City has continued to improve with average monthly housing rent in 2015 equal to \$1,209, which represents a 10.7% increase over the prior five-year period.

The data points referenced in this paragraph were derived from the following source: Philadelphia Recorder of Deeds, Philadelphia Office of Property Assessment, U.S. Census, National Multifamily Housing Council, and Trend MLS.

### *Home Prices*

After nearly ten years of house price deflation and sluggish recovery, 2015 proved to be the best year for Philadelphia housing since the recession. Both the median house price and the house price index for Philadelphia hit new all-time highs. The following chart shows an empirically estimated house price index that displays the trajectory and level of average house prices in Philadelphia on a quality- and seasonally-adjusted basis (the red line) and a similar house price index for Philadelphia’s suburbs (the green line). The index is computed via regression, using a hybrid hedonic repeat-sales specification, which is very similar to the same methodology used in the computation of the Case-Shiller House Price Indices.

### Philadelphia County v. Suburban House Price Indices 1980-2016



Source: Philadelphia Recorder of Deeds, Computed by Kevin C. Gillen, PH.D.

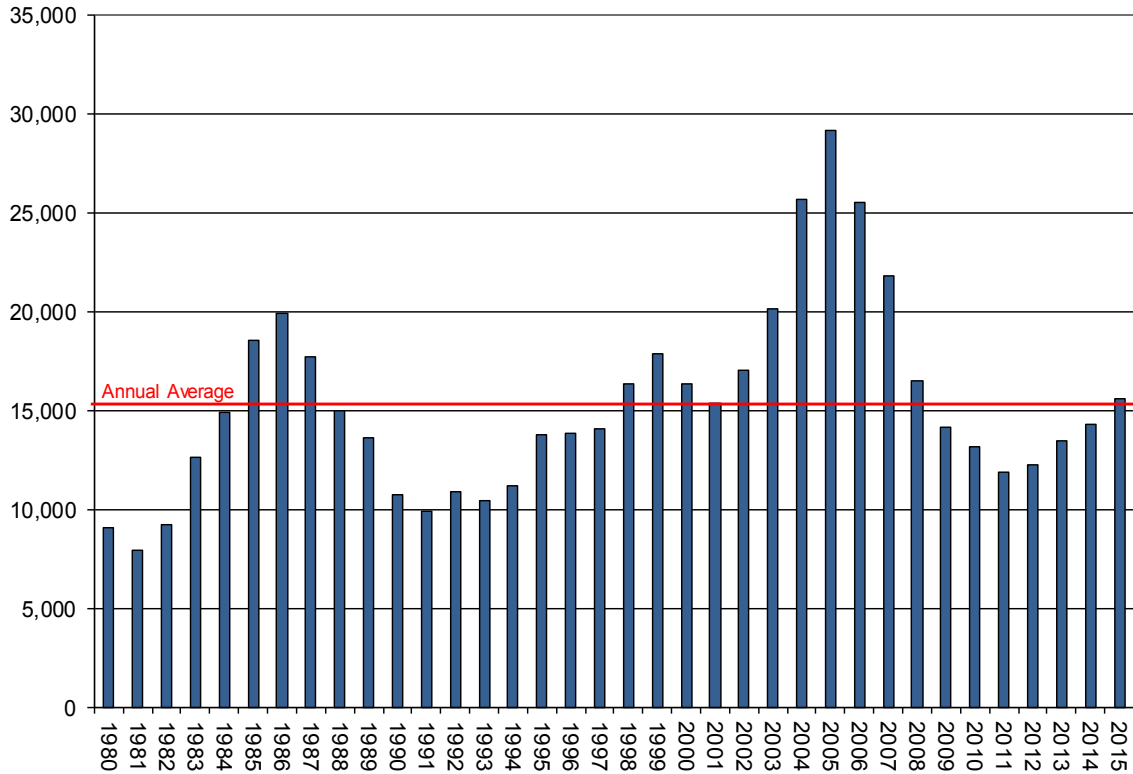
The index is normalized to a starting value of 100 in its first period of 1980 Q1, with its percent change over time reflecting the average price appreciation (or depreciation) rate of the average Philadelphia home. After hitting a peak in mid-2007, the index began a 5-year decline of 23% before hitting bottom in early 2012. Since then, Philadelphia has lagged both other cities and the nation as a whole in its house price recovery. But, after making significant gains in the latter half of 2015 and early 2016, the current index stands at a value that is slightly higher than its peak in 2007, thus indicating that the aggregate loss in the value of Philadelphia's housing stock from the Great Recession has been erased.

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## Home Sales

Another indicator of the housing market's recovery is the current level of home sales. The following chart shows the annual number of single-family house sales in Philadelphia since 1980. Only arms-length home sales at market-rate prices are counted in the following chart.

**Number of Philadelphia House Sales Per Year: 1980-2015**



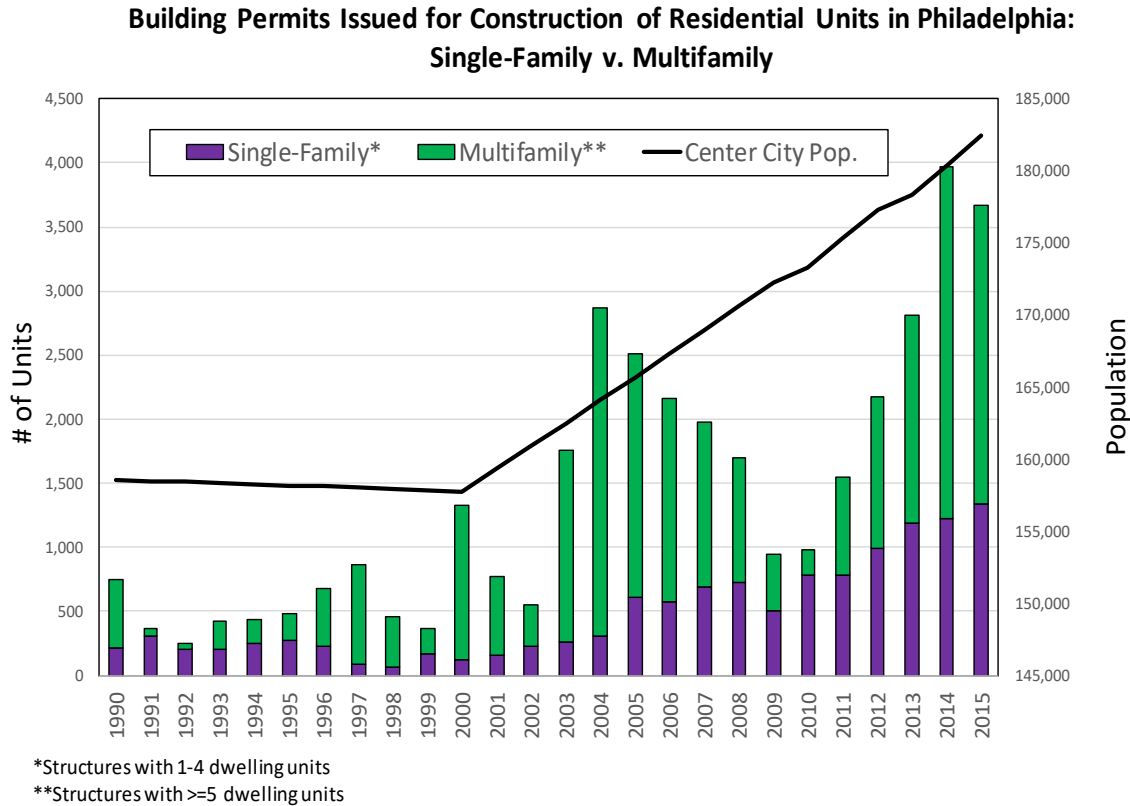
Source: Philadelphia Recorder of Deeds

Like prices, home sales dropped significantly following the bursting of the housing bubble, and after hitting bottom in 2011 have only sluggishly recovered. However, in 2015, total home sales were just above 15,000 units in Philadelphia, which is back to its historic long-run annual average, and is at its highest level since 2008. As such, the current level of home sales activity reflects the recovery of the City's housing market.

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## Home Construction

Homebuilding activity in Philadelphia has also made significant progress since hitting its recessionary low in 2009. The following chart shows the number of newly constructed units being added to Philadelphia's housing stock, as represented by the number of building permits issued for such units, from 1990 through 2015.



Source: U.S. Census

Because the overwhelming amount of current new construction is in and around the Center City (downtown) neighborhoods of Philadelphia, the above chart also shows total population growth in those same neighborhoods, as represented by the black line.

Prior to 2000, construction of new housing units in Philadelphia was low by both absolute and relative measures, averaging only 400 units per year, while population growth during this period was actually slightly negative. Following passage of a ten-year property tax abatement program<sup>3</sup> in 2000, construction began to grow steadily, hitting a peak of nearly 3,000 units in 2004. After declining to 947 units during the recession in 2009, construction activity has recovered steadily, and currently stands well above the boom years of the previous decade. In 2014, permits were issued to approve the construction of nearly 4,000 new housing units in Philadelphia—an all-time high. Although total permitting activity declined in 2015 from the previous year, total residential development activity still remains quite high,

<sup>3</sup> Under the tax abatement program, the value of any new improvements to real estate in Philadelphia is untaxed for the first ten years after the improvements are made. In the case of new construction, this is a substantial tax break to the owner because the entire structure represents an improvement. As such, the owner only pays real estate taxes on the value of the land for the first ten years after a new building is completed.



and appears justified by continued population growth. An easing in development activity could actually be taken as a positive sign, since it gives the market time to allow recently finished projects to be absorbed by the current population, rather than having the flow of supply (new units) exceed the flow in demand (new households).

### Office Market and New Development

The City currently has approximately 44.7 million square feet of office space in the Central Business District (“CBD”), with an additional 2.4 million square feet under construction according to Jones Lang LaSalle’s (“JLL”) statistics for the fourth quarter of 2016. The CBD includes four submarkets: University City, the Navy Yard, Market Street East and Market Street West. Although total vacancy eased slightly in University City with the delivery of the new 49-story, 861,000 square foot FMC Tower at Cira South, JLL also reports that total vacancy in the City’s other CBD submarkets remains tight at 10.2%. This low vacancy and the delay of delivery of other Class A office towers, have driven trophy rent in University City to surpass \$50 per square foot (full service gross) and the conversion of Class B office space into Class A across the CBD. Properties undergoing redevelopment, especially those in the Market East submarket, are well positioned in current market conditions.

The average direct asking rental rates in the City’s CBD rose to \$30.24 per square foot in the fourth quarter of 2016. Markedly, the City’s CBD enjoys rising rents with low overall total vacancy, the third lowest vacancy rate among peer CBDs across the nation, while its suburban counterparts have higher overall total vacancy and lower rents during the same period, at 14.1% and \$25.87 per square foot.

Table 12 shows comparative overall fourth quarter 2016 office vacancy rates for selected office markets.

**Table 12**  
**Total Office Vacancy Rates of Selected Office Markets**  
**Central Business Districts, Fourth Quarter 2016**

<b>Market</b>	<b>Vacancy Rate</b>
New York-Midtown South	7.5%
Boston	9.4%
Philadelphia	10.2%
Chicago	10.3%
New York-Midtown	10.6%
New York-Downtown	11.6%
Washington, DC	12.0%
United States CBD, All Markets	12.1%
San Antonio	12.8%
Baltimore	14.0%
Detroit	14.1%
San Diego	14.6%
Houston	16.1%
Los Angeles	16.3%
Cleveland	20.5%
Phoenix	21.7%

Source: Jones Lang LaSalle, National CBD Data, Fourth Quarter 2016

Notable developments include the lease-up of FMC Tower to 95% committed within six months of its delivery. Tenants include Spark Therapeutics, Lutron, Penn, FreedomPay, and NASDAQ. Comcast's \$1.2 billion Comcast Technology Center is on schedule to deliver in the first quarter of 2018. The new skyscraper will enable Comcast to consolidate employees currently scattered at several sites (in both Philadelphia and the surrounding suburbs) into a single location. The facility will also create a media center in the heart of the City by becoming home to the operations of local broadcast television stations NBC 10/WCAU and Telemundo 62/WWSI. Comcast also recently clarified plans for a startup accelerator within the building, to be branded as LIFT Labs for Entrepreneurs. The tower will also serve as the new home to the Four Seasons Hotel, which will occupy the tower's top floors with 222 rooms. The mixed-use tower is expected to be the tallest building in the United States outside of New York and Chicago and will be one of the largest private development projects in the history of Pennsylvania. Ultimately, the project is expected to create 1,500 permanent jobs in Philadelphia.

### **Retail Market, Food and Dining**

According to a December 2016 Center City District report, Philadelphia's retail market has grown substantially and with nearly 185,000 residents, 300,000 workers, 3.1 million occupied hotel room nights and 117,000 college students in and around Center City, the market generates more than \$1 billion in retail demand. The report also states that Center City's "affluent and highly educated residential demographic has attracted more than 45 national retailers since 2013. More than 2 million square feet of retail is under construction downtown, as older shopping streets are being redeveloped and Philadelphia's prime retail district continues to expand." According to Commercial Brokers Real Estate's Fall 2016 Report "Philadelphia Urban Retail," Center City's retail rental rates have risen faster than all North American cities other than Miami. The Center City District also reports that pedestrian volumes along West Chestnut now match and surpass pedestrian volumes along West Walnut, the City's traditional "high street." In January 2015, Philadelphia was named the second of 24 "Best Shopping Cities in the World," by Condé Nast Traveler Magazine, behind Barcelona.

Market East, an important commercial area nestled between City Hall and the City's historic district is experiencing a development boom. The revitalization of this section of the City, containing a major transport hub, is expected to be transformative. Most notably, the planned redevelopment of The Gallery at Market East into the Fashion Outlets of Philadelphia is one of the biggest developments in the area. This 430,000 square foot urban retail mall complex features 130 stores. In April 2013, Pennsylvania Real Estate Investment Trust ("PREIT") acquired single entity ownership of The Gallery at Market East. In July 2014, the Macerich Company, which owns 55 shopping centers across the nation, acquired a 50% interest in The Gallery. In December 2015, Macerich and PREIT closed on their agreement for the \$325 million redevelopment of the shopping center. Interior demolition of The Gallery at Market East began in 2016 with an estimated completion date of Q4 2018.

Recent improvements along East Market Street also include the 2014 opening of New York-based department store Century 21, the chain's first store outside of New York City, in a 95,000 square foot space that was previously vacant. Also, in March 2014, NREA Development Services announced a mixed-use redevelopment project, called East Market, also located on Market Street between 11th and 12th Streets. Once completed in the late spring of 2017, the project will include 325 apartments, and up to 122,000 square feet of retail space. Just one block south of Market Street, as of July 2016, Brickstone Co. has completed construction of a mixed-use redevelopment project. The project is a mix of new construction and historic preservation and includes up to 115 apartments and 90,000 square feet of retail space. Tenants include Target Express, one of two Center City locations that opened in 2016.

Complementing the rise of retail in Philadelphia, the City has experienced a revival of restaurant establishments, especially in Center City and in the Greater Center City area, indicating an improved

quality of life and vibrancy of those neighborhoods. The Center City District's investment in beautification of the area as well as the City's support in making the area more welcoming to visitors and diners sparked a significant increase in the number of indoor/outdoor dining establishments throughout Center City. From 1992 to 2010, the number of fine dining establishments within the Center City District increased 322%. Preliminary data reports that foodservice and drinking establishments employed about 48,800 people in 2015, representing an average annual growth of 2.4% since 2005.

## **ECONOMIC DEVELOPMENT STRATEGIES AND IMPLEMENTATION**

### **City of Philadelphia Economic Development Mission and Goals**

The City's economic development strategy is to (1) spur job-creation by fostering an improved business environment; (2) increase the City's population and visitation; and (3) enhance quality of life within the City – all in order to grow the City's tax base and market competitiveness. The City partners with numerous quasi-city and private agencies to accomplish these objectives.

The City utilizes several place-based economic development strategies to spur development in Philadelphia. These strategies include: (i) a 10-year real estate tax abatement on all construction, as well as on improvements to existing properties; (ii) Commonwealth-designated Keystone Opportunity Zones in which eligible businesses may be exempt from all Commonwealth and local business taxes until a specified date; (iii) Commonwealth-designated Keystone Innovation Zones in which energy, defense, technology, and life-sciences companies may be eligible for saleable tax credits worth \$100,000 annually for the first eight years of operations; (iv) tax increment financing; and (v) commercial corridor revitalization through support of Business Improvement Districts and reimbursement for certain storefront and interior retail improvements.

The City has also actively worked to raise its profile in the international business community. In October 2015, Philadelphia received the designation of the first World Heritage City in the United States by the Organization of World Heritage Cities. In summer 2015, the City entered into a "sister city" agreement with Frankfurt, Germany, considered the largest financial center in continental Europe. This agreement is Philadelphia's first sister city since 1992. In September 2016, a delegation of City officials and business leaders participated in a trade mission to Germany, France and Portugal further enhancing Philadelphia's relationship with these three countries. In fall 2014 and 2015, Philadelphia hosted delegations of Israeli high-tech companies following a 2013 Israeli trade mission. Additionally, by participating in the Global Cities Initiative with multiple private stakeholders, the City of Philadelphia is supporting the development of a metro export growth plan, which launched in spring 2016.

### **City and Quasi-City Economic Development Agencies**

#### *City of Philadelphia Department of Commerce*

The mission of the Department of Commerce, a 75-person City agency, is to ensure that Philadelphia is a globally-competitive city where employers hire, entrepreneurs thrive, and innovation abounds; to recruit and retain a diverse set of businesses; to foster economic opportunities for all Philadelphians in all neighborhoods; and to partner with workforce development programs and local businesses on talent development with the goal of ensuring that all Philadelphians can find and retain living-wage jobs. The Department of Commerce has three major divisions: Neighborhood & Business Services; Office of Business Development and Office of Economic Opportunity.

### *City of Philadelphia Department of Planning and Development*

The Department of Planning and Development oversees all planning, real estate development support, and commissions such as Historical Commission, Planning Commission, Art Commission and Civic Design Review. Planning and Development also oversees all housing initiatives and plays a key role in community development.

### *Philadelphia Industrial Development Corporation (PIDC)*

PIDC is a non-profit organization founded by the City of Philadelphia and the Greater Philadelphia Chamber of Commerce in 1958. PIDC offers flexible financing tools, a targeted portfolio of industrial and commercial real estate, and expertise to help clients invest, develop, and grow in Philadelphia. PIDC also structures and invests in public-private partnerships for key City policy areas and development priorities. Since its inception, PIDC and its affiliates have settled approximately 6,700 transactions, including \$14 billion in financing that has leveraged over \$25 billion in total investment and assisted in creating and retaining hundreds of thousands of jobs. Its direct loan and managed third-party portfolio at the start of 2016 exceeded \$642 million, representing 520 loans.

### *Philadelphia Redevelopment Authority (PRA)*

In 1945, the Commonwealth enacted the Urban Renewal Law and created the PRA as the City's urban renewal agency. Today, the PRA continues its role as a key financer, project manager, leader, and expert of developing and maintaining land in the City of Philadelphia. The PRA is one of five municipal land holding agencies. Its Real Estate Division facilitates the redevelopment of PRA assets and it provides project management and analysis for real estate sales, acquisitions, redeveloper agreements, developer submissions and required approvals. Its Housing Department leads the underwriting and loan closing process for all affordable housing projects within the City of Philadelphia and works primarily with non-profit and for-profit developers as a lender.

### *Philadelphia Land Bank (PLB)*

A new institutional partner in land use is the recently established the PLB. The aim of the PLB is to consolidate many of the land acquisition and disposition processes of the City under one umbrella, making it easier for private individuals and organizations to acquire properties that otherwise contribute to neighborhood disinvestment and turn them into assets for the community in which they are located. The PLB can: (i) consolidate properties owned by multiple public agencies into single ownership to speed property transfers to new, private owners; (ii) acquire tax-delinquent properties through purchase or by bidding the City's lien interests at a tax foreclosure; (iii) with consent of the City, clear the title to those properties so new owners are not burdened by old liens; and (iv) assist in the assemblage and disposition of land for community, non-profit, and for-profit uses.

### *The Division of Housing and Community Development (DHCD)*

DHCD, formerly known as the Office of Housing and Community Development (OHCD), and now part of the City's Department of Planning and Development, manages planning, policy and investment in low-income housing through several assistance programs. Most significantly, the DHCD creates and manages implementation of the Consolidated Plan, a federally-mandated plan and budget that must be updated yearly in order to receive federal Community Development Block Grant funding.

### *The Philadelphia Housing Authority (PHA)*

PHA is funded primarily by the federal government and is the largest landlord in Pennsylvania. PHA develops, acquires, leases and operates affordable housing for City residents with limited incomes. PHA works in partnership with the City and state governments, as well as private investors. Over 93% of PHA's annual budget is funded directly or indirectly by the U.S. Department of Housing and Urban Development, and most of the balance of PHA's budget is derived from resident rent payments. Neither PHA's funds nor its assets are available to pay City expenses, debts or other obligations, and the City has no power to tax PHA or its property. Neither the City's funds nor its assets are subject to claims for the expenses, debts, or other obligations of PHA.

### *Rebuilding Community Infrastructure Program (REBUILD)*

Rebuild is a new \$500 million initiative to revitalize neighborhood parks, recreation centers, playgrounds, and libraries across the City over a seven-year period. This program is intended to catalyze economic development in some of Philadelphia's most impoverished communities and neighborhoods. Rebuild is not only committed to making transformative capital improvements in neighborhood public and shared spaces, but will also strive to build capacity and opportunities for minority and women-owned businesses and job opportunities for local residents.

## **Key Commercial Districts and Development**

Over the last two decades the efforts of Philadelphia's economic development agencies and others have spurred significant economic revitalization throughout the City. In particular, a number of geographic areas have experienced concentrated developments: Philadelphia's Historic District, Avenue of the Arts, North Broad Street, and the Benjamin Franklin Parkway. Many of these developments, such as a significant increase to Philadelphia's hotel room inventory in Center City Philadelphia and expansion of the Pennsylvania Convention Center, are key to the growth of Philadelphia's leisure and hospitality sector. Several key areas within the City have been instrumental in the economic and commercial development of Philadelphia over the past twenty-five years and the population growth since 2000.

### *Center City*

A district that has seen a resurgence over the last two and a half decades, Center City is Philadelphia's central business and office region within the City. Center City is the strongest employment center in the City. In addition, the area contains a sizeable residential population and provides ample access to retail, dining, arts and culture, entertainment, and mass transportation services, to both residents and daily commuters. According to the Center City District, one of the City's business improvement districts, 290,664 riders took public transportation into Center City on the average weekday in 2015. Center City is flanked by neighborhoods that are considered "Greater Center City." Over the last two decades, as there has been an influx of new businesses and residents in these neighborhoods, the boundaries of Greater Center City have moved significantly further North and South, with the Delaware and Schuylkill Rivers remaining boundaries on the East and West. 2016 saw a record number of new residential units for a growing downtown population, with 2,506 new units in Greater Center City, a 15.5% increase over the previous high of 2,168. Of these, 73% are rental apartments and 27% were for-sale housing. Six large projects of 100 units or more account for 73% of all new apartments (1,331 units) completed in 2016. Recent and current key developments in Center City listed in Table 13 below total more than \$4.1 billion.

### *Old City*

Old City is home to some of the country's oldest historical assets and is considered America's "most historic square mile." Independence National Historical Park is an international destination, attracting 3.6 million visitors annually. Important culturally and economically, Old City is also home to world-class museums, theaters and art galleries. The neighborhood offers excellent hotels, a wide range of dining and nightlife establishments, independent retailers and a diverse mix of technology, media, professional and service organizations. Some 8,000 residents live in historic townhouses, industrial loft apartments and new condominium properties. Old City is located within a Keystone Innovation Zone, meaning that technology, energy and life sciences businesses may be eligible for up to \$100,000 in tax credits. Old City District (OCD) is a business improvement district that promotes the area and fosters economic development locally. OCD helps companies find suitable real estate and actively promotes the sector to attract businesses. Over the last few years, technology and creative businesses have established an increasingly important presence in the area.

### *University City*

Located west of Center City, University City is a hub for the health care, life sciences, and higher education sectors and accounted for approximately 11% of the City's employment in 2015. It includes the campuses of the University of Pennsylvania, Drexel University, University of the Sciences, the University of Pennsylvania Health System, the Children's Hospital of Philadelphia and The Wistar Institute, as well as the University City Science Center, a biomedical incubator. University City has experienced significant real estate development, driven mostly through the investment of its universities and research institutional anchors. The University of Pennsylvania built the \$88 million Singh Center for Nanotechnology in 2013 and is investing \$127 million in a new residence hall called New College House at Hill Field. Drexel University invested nearly \$300 million into University City in 2013, and is planning for an additional \$3.5 billion over 20 years in the development of Schuylkill Yards in partnership with Brandywine Realty Trust. This project will develop 14 acres of underutilized land near Philadelphia's 30th Street Station into an innovation neighborhood. It will feature a mix of entrepreneurial spaces, educational facilities and research laboratories, corporate offices, residential and retail spaces, hospitality and cultural venues and public open spaces.

### *The Navy Yard*

The Navy Yard is a 1,200 acre mixed-use office, research and industrial park with over 13,000 people working on site across 150 companies. The Navy Yard has diverse tenants such as Philly Shipyard, one of the world's most advanced commercial shipbuilding facilities; the global headquarters for retailer Urban Outfitters, Inc.; a 208,000 square foot, double LEED Platinum corporate office for pharmaceutical company GlaxoSmithKline; and a LEED Silver bakery facility for the Tasty Baking Company. More than 7.5 million square feet of space is currently occupied or in development with significant additional capacity available for office, industrial, retail and residential development.

PIDC and its partners released an updated Navy Yard master plan in 2013, detailing a comprehensive vision for the Navy Yard. The plan calls for a total of over 13.5 million square feet of new construction and historic renovation supporting office, R&D, industrial and residential development, complemented with commercial retail amenities, open spaces and expanded mass transit. At full build, the Navy Yard will support more than 30,000 employees and over \$3 billion in private investment. Currently, PIDC is negotiating changes to deed restrictions with the U.S. Navy to allow the construction of housing at Philadelphia's Navy Yard.

The Navy Yard continues to grow, adding over 500 employees and attracting four new companies in 2016, bringing the Navy Yard closer to its strategic targets. Recently completed construction projects include: 4701 League Island Blvd, the third facility on campus for WuXi AppTec, a leading pharmaceutical and biotechnology company; 1200 Intrepid Ave, the new LEED Gold office building designed by world-renowned architecture firm Bjarke Ingels Group; and most recently, in March 2017, UK-based life sciences company, Adaptimmune, opened its U.S. headquarters and Clinical and Manufacturing Operations at the Navy Yard. This was in addition to the City's announcement in September 2015 that Axalta Coating Systems, an advanced coatings manufacturer, is developing a 175,000 square foot Global Innovation Center at the Navy Yard, which is under construction and slated to open in 2018. Since 2000, the Navy Yard has leveraged more than \$150 million in publicly funded infrastructure improvements to spur more than \$750 million in new private investment.

## **Waterfront Developments**

Taking advantage of the City's geographic assets, the Schuylkill River and the Delaware River, the City is redeveloping its waterfront to accommodate a variety of developments, including mixed-use projects and housing, parks and recreational trails, and hotels. These projects improve quality of life for residents and improve the visitor experience, but also are an impetus for environmental remediation and private development of former industrial property within the City.

### *Delaware River Waterfront Corporation*

The Delaware River has historically been a center of activity, industry, and commerce, bounded at its north and south ends by active port facilities. The City adopted a Master Plan for the central Delaware River in 2011. The Delaware River Waterfront Corporation (the "DRWC"), in partnership with the City, is a nonprofit corporation that works to transform the central Delaware River waterfront into a vibrant destination for recreational, cultural, and commercial activities. Successful park projects include Race Street Pier in 2011, Washington Avenue Green in 2014, and Pier 68 in September 2015. All three parks are adaptive reuse projects built on former pier structures. In April 2014, the DRWC published a feasibility study for redevelopment of Penn's Landing, a major public space along the Delaware River waterfront. The Master Plan calls for a combination of public and private investment for the two million square foot development program. Recently the City announced a \$90 million commitment to cap I-95 and build an 11-acre expanse of greenery between Walnut and Chestnut streets, as part of an estimated \$225 million project to better connect Center City with the waterfront.

### *Schuylkill River Development Corporation*

Redevelopment along the Schuylkill River is managed by a partnership among the Schuylkill River Development Corporation (the "SRDC"), the Department of Parks & Recreation, and the Department of Commerce. SRDC works with federal, Commonwealth, City and private agencies to coordinate, plan and implement economic, recreational, environmental and cultural improvements, and tourism initiatives on the Schuylkill River.

From 1992 to 2015, \$60 million was invested by SRDC, the City, and their partners along the tidal Schuylkill to create 1.8 miles of riverfront trails within 17 acres of premiere park space in the heart of the City, and has added amenities to the Schuylkill River Park such as floating docks, fishing piers, composting toilets, and architectural bridge lighting. SRDC continues to work towards meeting its goal of creating and maintaining 10 miles of trail and 70 acres of green space along the tidal Schuylkill River in Philadelphia. The latest Schuylkill Trail extension running from Locust Street to South Street, called the Boardwalk, opened in October 2014 and plans to extend the trail farther south to Christian Street are in final design stages. In October 2015, Philadelphia was awarded \$10.265 million in federal TIGER grants,

split among three projects across the City. The City will use \$3.265 million of the grant to convert an abandoned swing rail bridge over the Schuylkill River near Grays Ferry into a bridge trail.

Since 2005, Philadelphia has benefitted from more than \$1 billion in development along the Schuylkill River, with more planned by private developers, universities, and healthcare institutions.

#### *Penn Park*

Although not publicly funded, the University of Pennsylvania's Penn Park is a significant piece of infrastructure that strengthens the connection between University City and Center City, improving the resident and visitor experience. It lies along the west bank of the Schuylkill River, and complements the work of the SRDC.

The University of Pennsylvania opened Penn Park in 2011, increasing the University's green space by 20%. The park includes 24 acres of playing fields, open recreational space and pedestrian walkways located between Walnut and South Streets. Formerly parking lots, the park embraces sustainable features, including underground basins that capture rainwater and mitigate storm water overflow into the Schuylkill River. Forty-five thousand cubic yards of soil, 2,200 pilings and more than 500 trees were installed to create canopied hills and picnic areas.

#### *Sugarhouse Casino*

Legislation enacted by the Pennsylvania General Assembly authorized two stand-alone casino licenses for the City. Philadelphia's first casino, SugarHouse, opened in September 2010. SugarHouse Casino sits on the Delaware River waterfront offering an array of slot machines, table games and dining options. In May 2013, SugarHouse received approval from the Pennsylvania Gaming Control Board to expand its operations, including additional parking and a larger gaming floor. The \$155 million expansion, completed in 2015, added 500 additional employees to the casino. After a period of significant gains from 2010 through 2012, SugarHouse revenue has leveled off. In fiscal year 2015, the casino's total revenue was \$271,201,316, an increase of 0.6% from 2013, and it employed 1,204 people in 2015, up from 1,128 in 2013.

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**Table 13**  
**Selected Major Development Investments Recently Completed or Under Construction**  
**(as of March 2017)**

<b>Project Name, by Neighborhood</b>	<b>Project Type</b>	<b>Cost in Millions</b>	<b>Est. Completion Date</b>
<b>CENTER CITY</b>		<b>\$4,000.00</b>	
1919 Market Street	Mixed Use	148.0	Complete Q2 2016
1116-28 Chestnut	Mixed Use	75.0	Complete Q3 2016
Rodin Square, Whole Foods	Mixed Use	160.0	Complete Q3 2016
1601 Vine Street	Residential	120.0	Complete Q3 2016
Mormon Temple	Religious	70.0	Complete Q4 2016
The Sterling – Redevelopment	Residential	75.0	Complete Q1 2017
East Market (formerly Girard Square)	Mixed Use	250.0	Q2 2017
One Riverside	Residential	90.0	Q3 2017
View 32 - 3201 Race Street	Residential	55.0	Q3 2017
1213 Walnut	Residential	125.0	Q3 2017
Comcast Innovation and Technology Center	Commercial/Hotel	1,200.0	Q4 2017
Park Towne Place – Redevelopment	Residential	200.0	Q1 2018
2400 Market	Mixed Use	230.0	Q1 2018
National Building	Residential	23.0	Q2 2018
W Hotel/Element	Hotel	359.0	Q2 2018
The Hamilton	Residential	130.0	Q3 2018
The Gallery	Commercial	100.0	Q4 2018
1911 Walnut	Mixed Use	300.0	2018
Hanover North Broad	Mixed Use	50.0	2018
SLS Hotel and Residences	Residential and Hotel	240.0	Q1 2019
<b>NAVY YARD</b>		<b>\$184.2</b>	
4701 League Island Blvd	Commercial	34.5	Complete Q3 2016
1200 Intrepid	Commercial	47.7	Complete Q3 2016
Adaptimmune	Commercial	23.5	Complete Q1 2017
Axalta R & D Facility	Commercial	67.5	Q4 2017
Pavilion	Commercial	11.0	Q4 2018
<b>OLD CITY</b>		<b>\$365.0</b>	
American Revolution Center	Arts & Culture	101.0	Complete Q1 2017
205 Race Street	Residential	65.0	Q2 2017
500 Walnut	Residential	174.0	Q2 2017
218 Arch	Mixed Use	25.0	Q4 2017
<b>OTHER NEIGHBORHOODS</b>		<b>\$272.0</b>	
One Water Street	Residential	65.0	Q3 2016
Philadelphia Mills	Commercial	34.0	Q4 2016
Divine Lorraine	Residential	43.0	Q2 2017
Lincoln Square	Mixed Use	130.0	Q1 2018
<b>UNIVERSITY CITY</b>		<b>\$2,588.0</b>	
FMC Tower at Cira Centre South	Mixed Use	385.0	Complete Q1 2017
New College House at Hill Field	University Residential	127.0	Complete Q3 2016
The Study at University City	Hotel	50.0	Complete Q3 2016
University of Pennsylvania Pennovation Works	Commercial	26.0	Complete Q4 2016
CHOP Schuylkill Ave Expansion	Health Care	250.0	Q2 2017
4601 Market - Public Safety Services Campus	Public	250.0	Q2 2018
Penn Health Tower	Health Care	1,500.0	Q2 2021
<b>TOTAL</b>		<b>\$7,409.2</b>	

Source: Philadelphia Department of Commerce

## TOURISM AND HOSPITALITY

Philadelphia has experienced a significant increase in tourism over the last decade, fueled by several high profile, global events that the City hosted, notably the 2015 World Meeting of Families, culminating in a papal visit from Pope Francis, and the Democratic National Convention in 2016. In April 2017, Philadelphia will host the NFL Draft, which is expected to bring 200,000 people to Center City. Both business and convention tourism as well as leisure tourism were at a record high in 2016. In January 2015, the New York Times ranked Philadelphia third on its listing of “52 Best Places to Visit in 2015,” the top listing for a location in the United States.

The Philadelphia Convention and Visitors Bureau (PHLCVB) books meetings, conventions and sporting events and supports international marketing of Philadelphia overseas. PHLCVB also books domestic group tours. Tourism Economics, an Oxford Economics Company, reported that international visitors from overseas to Philadelphia in 2015 numbered more than 638,000, spending \$595 million generating \$982 million in total economic impact to the Philadelphia region. According to the same source, Philadelphia ranks as the 15th most visited city in the U.S. by overseas travelers. Philadelphia’s international visitation has seen significant growth over the past decade, a 27% growth in overseas travelers since 2006 (up from 501,000 in 2006).

The PHLCVB has booked 569 meetings, conventions and sporting events for future years. These groups will bring a total of 2.4 million attendees to Philadelphia consuming 3.5 million room nights and generating an estimated \$4.8 billion in total economic impact.

Visit Philadelphia markets Philadelphia domestically, as well as in Canada and Mexico, to promote leisure travel. Philadelphia has attracted more overnight leisure travelers than ever before and Center City hotels reached a landmark 1 million leisure room nights in 2016. Further, several big and new-to-the-city brands are preparing to enter the market during the next two years, along with smaller boutique hotels. Leisure hotel room stays have increased 287% since 1997 and in 2016 the estimated economic impact of leisure travel was \$107 billion according to the Visit Philly 2016 Annual Report.

**Table 14**  
**Greater Philadelphia<sup>†</sup> Visitation Growth, 1997-2015**  
**(In Millions)**

	<b>1997</b>	<b>2015</b>	<b>Net Change</b>	<b>Percent Growth</b>
Total Visitation	26.7	41.1	14.4	54%
Day - Leisure	15.5	21.9	6.4	41%
Overnight - Leisure	7.3	14.3	7.0	96%
Day - Business	2.5	2.7	0.2	8%
Overnight - Business	1.4	2.2	0.8	57%

<sup>†</sup>Bucks, Chester, Delaware, Montgomery and Philadelphia counties.

Source: Visit Philadelphia, Tourism Economics, Longwoods International.

Philadelphia has seen an influx in new hotel development, with numerous new developments underway or confirmed. Table 15 lists notable hotel developments since 2015, representing over \$1 billion in investment. The number of hotel rooms available in the City in 1993 was 5,613, with annual demand of 1,331,684 hotel rooms, representing 65% occupancy. In 2016, the City’s hotel room inventory was 16,115 rooms, with occupancy at 76.7%. Several hotel projects are currently under development, which will increase hotel room inventory by more than 1,300 rooms.

In October 2013, City Council approved a tax increment financing assistance package for the development of a 755-room hotel, home to both the W and Element brands, which will serve as an anchor to the Convention Center. Additionally, in February 2014, the City announced plans for the adaptive reuse of the City's former Family Division of the Court of Common Pleas building to become a 199-room luxury hotel, currently projected to be completed in 2019. The 222-room Four Seasons Hotel will reopen in 2017 on the top 12 floors of the Comcast Innovation and Technology Center.

**Table 15**  
**Notable Hotel Developments From 2015 And Projected Forward, In Millions**  
**(As of March 2017)**

<b>Project Name</b>	<b>Cost (millions)</b>
The Logan Hotel (2015)	\$28
The Study at University City (2016)	\$50
101 N. Broad Street Hotel (expected opening in 2017)	-
Four Seasons Hotel in Comcast Tower (expected opening in 2017)	-
SLS Hotel and Residences	\$240
Aloft by Starwood (expected opening in 2017)	
W Hotel/Element Hotel (expected opening in 2018)	\$359
Family Division of the Court of Common Pleas Conversion (projected opening in 2019)	\$85
<b>Total</b>	<b>\$762</b>

#### *Museum and Cultural Centers*

Crucial to tourism is the City's robust arts and culture sector. The Center City District reports that one in three tourists who come to Center City Philadelphia cite museums and cultural events as the primary reason for their visit. In 2016, Lonely Planet named Philadelphia on its top-10 best list of "unexpectedly exciting places to see." In 2015, the top attractions in Philadelphia, including the Independence National Park, the Philadelphia Zoo, and the Philadelphia Museum of Art, had over 14.5 million visitors according to the Philadelphia Business Journal.

Organizations like the Philadelphia Museum of Art, the Kimmel Center, FringeArts, and the more than 400 smaller cultural organizations throughout the City help improve the quality of life for residents and visitors. The Greater Philadelphia Cultural Alliance reported in 2012 that cultural institutions in the PMSA contributed an estimated \$1.4 billion in household income in 2011, with \$490.3 million in Philadelphia County alone. Part of the wider economic impact generated by this revenue is demonstrated in the over 48,900 creative jobs that the sector supports within Philadelphia.

#### *Avenue of the Arts (South Broad Street) Investments*

The Avenue of the Arts is located along a mile-long section of South Broad Street between City Hall and Washington Avenue, in the heart of Philadelphia's Center City. Reinventing South Broad Street as the Avenue of the Arts, a world class cultural destination, has been a civic goal in Philadelphia for more than two decades. Cultural institutions, the William Penn Foundation, local property owners and civic leaders advanced the idea of a performing arts district on South Broad Street anchored by the Academy of Music and modeled after successful performing arts districts around the country. The Avenue of the Arts became a key element of the City's strategy to strengthen Center City as the region's premier cultural destination and an important element in the City's bid to expand its convention and tourism industries.

### *The Benjamin Franklin Parkway*

Complementing the Avenue of the Arts theater district developments, the Benjamin Franklin Parkway is considered the spine of Philadelphia's museum district. Designed by French architect Jacques Gréber, to emulate the Champs Elysées of Paris, the Parkway opened in 1929. It runs from the area of City Hall to the Philadelphia Museum of Art and is a central public space and tourist attraction. Key Parkway features include Love Park – which is undergoing major renovations estimated to be completed in 2017, the Philadelphia Museum of Art, the Rodin Museum, the Franklin Institute, The Barnes Foundation, the Free Library of Philadelphia, the Academy of Natural Sciences, the Swann Memorial Fountain, Sister Cities Park, Cathedral Basilica of Saints Peter and Paul on Logan Square, and numerous pieces of public art.

Opened in May 2012, The Barnes Foundation is a welcome addition to the City's impressive roster of arts facilities, and has had a significant impact on the City's leisure and hospitality industry. In October 2015, the Barnes welcomed its one millionth visitor since opening on the Parkway. With membership over 85,000, it is ranked among the top institutions of its kind in the country.

### *Historic District*

Key to the City's leisure and hospitality growth is the maintenance and investment in the City's extraordinary historic assets. As the birthplace of the country, Philadelphia remains a major tourist destination year-round, particularly the City's Historic District, which includes such national treasures as the Liberty Bell, Independence Hall, Carpenters' Hall, Betsy Ross' house and Elfreth's Alley, the nation's oldest residential street. The City continues to invest in the maintenance and expansion of the Historic District's tourist experience. Since 2001, \$613 million of improvements have been made in Philadelphia's historic district, with an additional \$120 million either under construction or planned over the next three years. Coupled with proposed developments, public and private, this district is expected to remain competitive in the national and international tourism markets for years to come.

### *North Broad Street and the Philadelphia Convention Center*

In 1993, with support from the Commonwealth, the Pennsylvania Convention Center was completed, providing a total of 624,000 square feet of saleable space across its four exhibit halls, ballroom and banquet spaces. In 2011, a \$786 million expansion, across 20 acres of central Philadelphia real estate, increased the facility to 2.3 million square feet. It is the largest single public works project in Pennsylvania history. In January 2014, SMG began managing and operating the Convention Center, instituting a number of measures intended to reduce and control show costs and improve customer service. In May 2014, SMG implemented new work rules through a customer service agreement signed by the Convention Center and four of six unions. The Convention Center continues to operate with no plans to replace the two unions that did not sign the agreement. In February 2016, the Convention Center announced that 2015 was its highest booking year ever with 856,663 bookings, a 1.2% increase from 2014, representing an estimated \$1.1 billion in future economic impact. The 2011 expansion of the Pennsylvania Convention Center reignited development efforts along this key corridor of North Broad Street. Improvements include Lenfest Plaza, which is adjacent to the Pennsylvania Academy of Fine Arts and across from the Pennsylvania Convention Center expansion entrance. Adjacent to the Convention Center, a 178-room Aloft Hotel by Starwood is under construction and expected to open in 2017.

### *South Philadelphia Sports Complex*

Another key element of Philadelphia's hospitality industry is professional sports. Philadelphia is the only city to have a professional hockey, basketball, baseball, and football team playing in a single district within the City, the Sports Complex Special Services District, created by the City in 2000.

The South Philadelphia Sports Complex houses three professional sports facilities: The Wells Fargo Center opened in 1996 and is home to the Philadelphia Flyers (National Hockey League) and Philadelphia 76ers (National Basketball Association); Lincoln Financial Field opened in 2003 and is home to the Philadelphia Eagles (National Football League); and Citizens Bank Park opened in 2004 and is home to the Philadelphia Phillies (Major League Baseball). The Phillies and the Eagles are contractually obligated to play in Philadelphia until 2033 and 2034, respectively.

Average paid home season attendance for the Eagles in Lincoln Financial Field has exceeded 100% of actual seating, since its opening in 2003. In the 2009 through 2012 seasons, the Phillies had a paid home season attendance in excess of 100% of actual seating at Citizen's Bank Park. In 2010, the Phillies had the second highest attendance of any team in Major League Baseball and in both 2011 and 2012 the Phillies registered the highest home attendance of any team in Major League Baseball. The Phillies attendance rate declined in 2013, but remained in the top ten of Major League Baseball teams. However, team performance has contributed to a significant decline in overall attendance, dropping the Phillies attendance ranking to 16 out of 30 teams in 2014, 25 out of 30 in 2015, and 24 out of 30 in 2016.

In 2012, Xfinity Live! Philadelphia, a 50,000 square foot sports entertainment and dining complex, opened within the sports complex. The privately funded, \$60 million venue includes a miniature sports field hosting free concerts and other activities, an outdoor theater accommodating sports games and family films, and a dozen dining and bar establishments. The complex, a Comcast-Spectacor and Cordish-owned company, also hosts the first ever NBC Sports Arena, featuring a 32-foot LED HD television, displaying the NBC Sports Ticker and in-game promotions. Cordish is currently in early conceptual planning stages of a phased expansion of the complex that could include retail, hotel and theater space. The entire complex is open year-round and sustains 276 full-time equivalent jobs.

In November 2014, the Pennsylvania Gaming Control Board awarded the City's remaining casino license to Live! Hotel & Casino, a joint venture between Cordish Cos. and Greenwood Gaming and Entertainment Inc. The \$425 million, 200,000-square-foot casino will include a 240-room hotel, 2,000 slots and 125 table games. It will also have a spa and conference center built in and around an existing Holiday Inn at the South Philadelphia Sports Complex. The license award has been challenged by several court appeals; in March 2016, the Pennsylvania Supreme Court ruled that the Pennsylvania Gaming Control Board must take a closer look at the company's ownership structure. Cordish was granted zoning approval in December 2015 and plans to complete the project in 2018, pending further approvals.

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## **TRANSPORTATION**

The residents of the City and surrounding counties are served by a commuter transportation system operated by SEPTA. This system includes two subway lines, a network of buses and trolleys, and a commuter rail network joining Center City and other areas of the City to PHL and to the surrounding counties. For more information on SEPTA, see “ECONOMIC BASE AND EMPLOYMENT – Southeastern Pennsylvania Transportation Authority (SEPTA)” and APPENDIX A – “EXPENDITURES OF THE CITY – City Payments to SEPTA.”

A high-speed train line runs from southern New Jersey to Center City and is operated by the Port Authority Transit Corporation (“PATCO”), a subsidiary of the Delaware River Port Authority. On the average weekday, PATCO brings approximately 15,000 individuals to Philadelphia.

New Jersey Transit operates 19 different bus routes and the Atlantic City Train Line, all of which serve to connect Philadelphia and New Jersey. On the average weekday, the New Jersey Transit bus routes bring approximately 2,000 individuals to Philadelphia and the Atlantic City Line brings approximately 700 individuals to Philadelphia.

Amtrak, SEPTA, Norfolk Southern, CSX Transportation, Conrail and the Canadian Pacific provide inter-city commuter and freight rail services connecting the City to other major cities and markets in the United States. According to Amtrak, Philadelphia’s 30th Street Station is the third busiest station in the United States. Structural improvements of \$30 million were recently completed to the station, and an additional \$60 million restoration project is awaiting federal approval.

The City now has one of the most accessible downtown areas in the nation with respect to highway transportation by virtue of Interstate 95 (“I-95”); Interstate 676 (the “Vine Street Expressway”), running east-to-west through the Central Business District between Interstate 76 (the “Schuylkill Expressway”) and I-95; and Interstate 476 (the “Blue Route”) in suburban Delaware and Montgomery Counties, which connects the Pennsylvania Turnpike and I-95 and connects to the Schuylkill Expressway, which runs to Center City Philadelphia. In addition, more than 100 truck lines serve the Philadelphia area.

The City is served within city limits by numerous private buses and shuttles. These buses and shuttles are operated by apartment complexes, universities, and private companies. These buses and shuttles connect Philadelphians to transit hubs, employment, and residences. A rail line reaches PHL in less than 20 minutes from the City’s central business district and connects directly with the commuter rail network and the Pennsylvania Convention Center.

Philadelphia launched the Indego bike share program, sponsored by Independence Blue Cross, in April 2015. The system launched with 600 bicycles and 70 stations throughout the City from Temple University in North Philadelphia to Tasker Street in South Philadelphia and from the Delaware River to 44th Street in west Philadelphia. Indego is the first bike share system in the United States to launch with a cash payment option for members. In 2016, the City expanded Indego to 1,000 bicycles and 103 bike share stations.

### **Southeastern Pennsylvania Transportation Authority (SEPTA)**

SEPTA operates facilities across the five-county Greater Philadelphia area encompassing approximately 2,200 square miles and serving approximately 4.0 million inhabitants. SEPTA operates service 24 hours a day, seven days a week, 365 days a year. SEPTA’s Fiscal Year 2016 operating budget totals \$1.365 billion. This is supported by \$829 million in federal, state, and local subsidies, as well as

\$535 million of operating revenue. A significant segment of the region relies on SEPTA for public transportation and annual SEPTA ridership totaled more than 326.1 million in Fiscal year 2016.

SEPTA's operations are accounted for in three separate divisions, the percentages following each division representing its approximate share of SEPTA's expense budget: City Transit (67%); Regional Rail Division (23%); and Suburban (10%). The City Transit Division serves the City with a network of 84 subway-elevated, light rail, trackless trolley and bus routes, providing approximately 902,000 unlinked passengers trips per weekday. The Regional Rail Division serves the City and the local counties with a network of 13 commuter rail lines providing approximately 123,000 passenger trips per weekday.

Beginning in Fiscal Year 2015, SEPTA's annual capital budget and 12-year capital program have increased significantly. The Fiscal Year 2016 capital budget is \$534.5 million, representing a 74% increase over the Fiscal Year 2014 budget of \$308 million. The Fiscal Year 2016-2027 capital program also increased significantly to \$6.8 billion from \$3.7 billion in the Fiscal Year 2014-2025 capital program. These increases are largely the result of the passage of Pennsylvania Act 89 in 2013 ("Act 89"), a state transportation funding bill.

SEPTA's increased capital budget will enable it to address a variety of needs. First, SEPTA will address its State of Good Repair ("SGR") backlog, which has grown as a result of funding shortfalls in previous years. In addition to renovating and upgrading substations, bridges, stations, and aging rail vehicles, SEPTA will also focus on expanding its capacity to serve a growing ridership and enhance accessibility to public transportation. Other projects and expenses supported by the capital program include the New Payment Technology project, expansion of the fleet of hybrid busses, installation of federally-mandated Positive Train Control signal technology, vehicle overhauls, capital leases, and debt service.

#### *Recent Ridership Trends*

Demand for public transportation has steadily increased over the past decade in the City, and in Fiscal Year 2012, SEPTA experienced its highest ridership in 25 years and in Fiscal Year 2015, SEPTA experienced its highest ridership ever for regional rail. For the first quarter of Fiscal Year 2017, SEPTA has reported an overall ridership increase of 4.5%, when compared to the same period for Fiscal Year 2016. However, SEPTA Regional Rail has been impacted by a rail car shortage, resulting from a defect discovered on new rail cars causing 120 cars to be pulled from service. Such shortage has resulted in an approximately 9.1% decline in Regional Rail trips and an overall passenger revenue decrease of 2.3% when compared to the same period for Fiscal Year 2016.

### **Airport System**

The Airport System serves residents and visitors from a broad geographic area that includes eleven counties within four states: Pennsylvania, New Jersey, Delaware and Maryland. The Airport System consists of the following:

#### *Philadelphia International Airport (PHL)*

PHL is classified by the Federal Aviation Administration as a large air traffic hub (enplaning 1.0% or more of the total passengers enplaned in the U.S.). According to data reported by Airports Council International – North America, PHL was ranked the nineteenth busiest airport in the United States, serving 30.7 million passengers in calendar year 2014 (i.e. total passengers enplaned and deplaned), and was ranked the twelfth busiest in the nation based on aircraft operations. PHL consists of approximately 2,426 acres located partly in the southwestern section of the City and partly in the

northeastern section of Delaware County, about 7.2 miles from Center City Philadelphia. PHL's runway system consists of parallel Runways 9L-27R and 9R-27L, crosswind Runway 17-35, commuter Runway 8-26, and interconnecting taxiways.

PHL terminal facilities include approximately 3.3 million square feet, consisting of seven terminal units (A-West, A-East, B, C, D, E and F). The terminal facilities principally include ticketing areas, passenger hold rooms, baggage claim areas and approximately 180 food, retail and service establishments. There are certain other buildings and areas located at PHL, consisting of six active cargo facilities, two American Airlines aircraft maintenance hangars, and a former United States Postal Service building located at the western end of PHL. On July 2, 2015, PHL purchased an adjacent property to PHL known as International Plaza, which has two fully leased buildings with approximately 500,000 square feet of rentable space on a 27-acre tract of land. More recently PHL acquired four additional parcels for future PHL expansion. These include A: 2-acre parcel (8436 Enterprise Ave.), which consists of a one story office and warehouse building, totaling 30,078 square feet, as well as an exterior yard and surface parking lots; B: two segments of a public roadway adjacent to the Airport (Hog Island Road) totaling approximately 8.5 acres and a leasing of three segments totaling approximately 21 acres for 50 years, with an option to purchase after 20 years; C: a 3.4-acre parcel (4848 Island Avenue) adjacent to the Airport consisting of a one story office and warehouse building, totaling nearly 40,750 square feet, as well as a surface parking lot; and D: a vacant lot of 1.1 acres in Tinicum Township (Parcel 8A) at Tinicum Island Road (rear) and bounded by Philadelphia International Airport to the south, east and west sides. These properties were acquired for future PHL expansion.

The outside terminal area consists of a 15-story, 419-room hotel (414 rooms and 5 suites), seven rental car facilities, a 150-vehicle cell-phone lot and two employee parking lots with a total of 4,200 spaces. This area also includes five parking garages and surface lots consisting of a total of 18,940 vehicle spaces, operated by the Philadelphia Parking Authority.

#### *Northeast Philadelphia Airport (PNE)*

PNE is located on approximately 1,126 acres situated within the City limits, ten miles northeast of Center City Philadelphia. PNE serves as a reliever airport for PHL and provides for general aviation, air taxi, corporate, and occasional military use. PNE currently has no scheduled commercial service. There are presently 85 T-hangars, nine corporate hangars, and six open hangars for general aviation activities. There are approximately 175 general aviation aircraft based at PNE.

#### *Capital Development*

In the last ten years, the Airport has constructed more than \$1.3 billion of capital improvements, including expansion and renovation of existing terminals, and airfield improvement projects, including a runway extension. The Airport's capital projects are included in the long-range Capacity Enhancement Program (CEP) and a near-term, on-going Capital Improvement Program (CIP). The CEP is a set of projects being pursued to improve efficiency, modernize airport facilities and provide additional capacity for future growth. It is a multi-year endeavor with multiple phases, and the timing for each development will be closely coordinated with the airlines and other stakeholders in order to maintain operational efficiency during construction. Approved CEP projects include a runway extension, taxiway improvements and the consolidated rental car facility. The Airport is working with its airline partners to review the sequencing and prioritization of the remaining elements within the CEP, which include expanding and reconfiguring the existing terminal complex; a new runway; an additional runway extension; further taxiway improvements; relocating several on and off-airport facilities to facilitate airfield improvements; cargo facility development; and parking and roadway improvements.



The CIP focuses on the near-term capital facility needs. CIP projects are developed to complement the framework of the CEP and the Airport's ultimate development. Major CIP projects include completion of Terminals D/E checked baggage inspection system; a new deicing facility; and ongoing rehabilitation and replacement projects.

#### *Use and Lease Agreement*

In June 2015, the City Council of Philadelphia approved a five-year Airport-Airline Use and Lease Agreement (Airline Agreement) between PHL and the airlines. The Airline Agreement began July 1, 2015, and includes options for two one-year extensions.

PHL will continue to study, plan, and modularly execute the mission to ensure its full potential benefit to PHL and its stakeholders. Table 16 provides the total project amounts approved since 2007.

**Table 16**  
**Ongoing Capital Projects Approved Since 2007**

<b>Capital Projects</b>	<b>Current Project Amount (millions \$)</b>
Capacity Enhancement Program (CEP) <sup>(1)</sup>	\$1,125.90
2007-2015 Capital Improvement Program (CIP) <sup>(2)</sup>	\$309.92
2016 Capital Improvement Program (CIP) <sup>(3)</sup>	\$173.25
2016 Majority in Interest (MII) approved Projects <sup>(4)</sup>	\$289.24

Source: City of Philadelphia, Division of Aviation

- (1) Includes redevelopment of existing terminals; relocations of on-airport and off-airport facilities; environmental commitment start-up; Runway 9R-27L (future 9C-27C) extension and associated eastside taxiway work; stage 1 airfield site work and fuel line work; automated people mover (design); and ground transportation center.
- (2) Includes repair, rehabilitation and upgrade programs for roofs, restrooms, windows, passenger loading bridges, mechanical and electrical systems, and security and access control systems; airfield civil improvements; and landside infrastructure improvements.
- (3) Includes airfield re-pavement, emergency operations center, repair & rehabilitation and upgrade programs for curb doors, roofs, loading bridges, air handling units, HVAC and fire protection systems; emergency operations center; and LED conversion program.
- (4) Includes land acquisitions, airfield taxiway reconstruction, purchases of Aircraft Rescue and Fire Fighting (ARFF) Vehicle and central deicing facility reconstruction, Arrivals road security bollards, Air Traffic Control Tower.

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### *PHL Passenger and Other Traffic Activity*

In FY 2016, domestic enplaned passenger traffic grew as PHL's low-cost carriers, specifically Frontier Airlines and Spirit Airlines, began serving several new destination cities. JetBlue Airways also added twice daily service to Fort Lauderdale, FL during the course of FY 2016. This growth was offset by slight reductions in outbound international traffic, which was mainly attributable to American Airlines discontinuing year-round service to Tel Aviv, Israel in early January 2016 and seasonal service to Edinburgh, Scotland, which did not return in May 2015. Additionally, American temporarily suspended service to Brussels, Belgium in March 2016 after a series of coordinated bombings in that city, two of which occurred at Brussels Airport. American later discontinued the Brussels service across their entire network.

PHL experienced a decline in aircraft operations while also experiencing a slight increase in landed weight in FY 2016 due mainly to changes in aircraft fleet mix instituted by PHL's mainline carriers as they move to eliminate many of the regional aircraft from their respective route networks.

#### **Enplanements and Operations Activity at PHL**

	<b>Fiscal Year 2016</b>	<b>Fiscal Year 2015</b>	<b>Percentage Increase (Decrease)</b>
Domestic Enplanements (Outbound passengers):	13,484,253	13,072,574	3.1%
International Enplanements (Outbound passengers):	2,199,305	2,240,164	(1.8)%
Total Enplanements (Outbound passengers):	<u>15,683,558</u>	<u>15,312,738</u>	<u>2.4%</u>
Operations (Takeoffs & landings):	407,968	414,121	(1.5)%
Landed Weight (1,000-pound units):	20,821,203	20,772,632	0.2%

### **Port of Philadelphia**

The Port of Philadelphia (the "Port") is located on the Delaware River within the City limits. Philadelphia's Port facilities are serviced by two Class I railroads (CSX and Norfolk Southern) and provide service to major eastern Canadian points, as well as Midwestern, southern and southeastern U.S. destinations. Terminal facilities, encompassing four million square feet of warehousing, are located in close proximity to Interstate 95 and Interstate 76. Over 1,600 local general freight trucking companies operate in the MSA, according to Hoover's Inc.

The Philadelphia Regional Port Authority (the "PRPA") reported approximately 6,262,648 metric tons of cargo moved through the Port in 2016, the second year of more than 6 million tons of cargo in a single calendar year, representing a 2.7% increase over 2015. The Port is the top-ranked port for meat importing in the United States, and is among the nation's leaders for fruit, cocoa, forest products and steel imports. In December 2015, the PRPA secured a new shipping service that will link directly with burgeoning port operations on the Gulf of Mexico at Veracruz and Altamira. This service will target commodities including goods such as avocados, lemons, tomatoes and commercial cargo.

The PRPA is working to increase the Port's competitiveness by increasing capacity by deepening the main channel of the Delaware River from 40 to 45 feet which scheduled to be completed in late 2017/early 2018. Most recently in November, the Governor announced \$300 million in Commonwealth funding to significantly expand the Port's facilities and double its capacity by 2020. Improvements will double container and auto capacity at the Port and increase the Port's ability to handle wood pulp, a food grade commodity.

## **KEY CITY-RELATED SERVICES AND BUSINESSES**

### **Water and Wastewater**

The water and wastewater systems of the City are owned by the City and operated by the City's Water Department (the "Water Department"). The water and wastewater systems are referred to herein individually as the "Water System" and "Wastewater System," respectively.

The Water System's service area includes the City of Philadelphia and has one wholesale water contract. Based on the 2015 U.S. Census Bureau estimate, the Water System served approximately 1,567,442 individuals.

As of June 30, 2016, the Water System served approximately 480,000 active retail customer accounts using approximately 3,100 miles of mains and approximately 25,000 fire hydrants. The City obtains approximately 59% of its water from the Delaware River and the balance from the Schuylkill River. The City is authorized by the Pennsylvania Department of Environmental Protection (the "PaDEP") to withdraw up to 423 million gallons per day ("MGD") from the Delaware River and up to 258 MGD from the Schuylkill River. On September 27, 2016, the PaDEP issued the Water Department a new water allocation permit, which expires on September 27, 2041. Under the new permit, the amount the City is authorized to withdraw from each river has not changed. The Water Department will begin discussions with the Delaware River Basin Commission to ratify the new permit.

Water treatment is provided by the Samuel S. Baxter Water Treatment Plant on the Delaware River and by the Belmont and Queen Lane Water Treatment Plants on the Schuylkill River. The combined rated treatment capacity of these plants is 546 MGD. The combined maximum source water withdraw capacity from the two rivers that supply these plants is 680 MGD. The excess source water capacity enables higher than normal withdrawal on either river should conditions limit the withdrawal from one river. The storage capacity for treated and untreated water in the combined plant and distribution system totals 1,065.5 million gallons ("MG"). In Fiscal Year 2016, the Water System distributed 81,687 MG of water at an average daily rate of 223.8 MGD. In Fiscal Year 2016, the maximum water production experienced by the Water System in one day was 258.2 MG.

The Wastewater System's service area is the City of Philadelphia and ten wholesale contracts with municipalities in the Philadelphia metropolitan area. Based on the 2015 U.S. Census Bureau estimate, the Wastewater System served approximately 1,567,442 individuals that live in the City or in areas served by such wholesale contracts.

As of June 30, 2016, the Wastewater System served approximately 545,000 accounts, including approximately 50,000 stormwater-only accounts, and ten wholesale contracts with neighboring municipalities and authorities.

The Wastewater System consists of three water pollution control plants ("WPCPs"), 19 pumping stations, approximately 3,700 miles of sewers, and a privately managed centralized biosolids handling facility. It includes 1,850 miles of combined sewers, 760 miles of sanitary sewers, 740 miles of stormwater sewers, 13 miles of force mains (sanitary and storm) and 349 miles of appurtenant piping. The three WPCPs processed a combined average of 379 MGD of wastewater in Fiscal Year 2016, have a 522 MGD combined average daily design capacity and a peak capacity of 1,059 MGD.

## **Solid Waste Disposal**

The City is responsible for collecting solid waste, including recycling, from residential households and some commercial establishments. On average, approximately 2,300 tons of solid waste per day are collected by the City. Municipal solid waste is disposed of through a combination of recycling processing facilities, private and City transfer stations within the City limits, and at various landfills operated outside the City limits.

## **Parks**

The City was originally designed by William Penn and Thomas Holme around five urban parks, each of which remains in Center City to this day. The City's parklands total over 10,300 acres, and include Fairmount Park, the world's largest landscaped urban park at 9,200 acres, Pennypack Park, and the Philadelphia Zoo, the country's first zoo. The City also offers its residents and visitors America's most historic square mile, which includes Independence Hall and the Liberty Bell.

## **Libraries**

The Free Library of Philadelphia, the City's public library system, comprises 54 branches and an extensive online resource system.

## **Streets and Sanitation**

The Philadelphia Streets Department (the "Streets Department") and the divisions within it are responsible for the City's large network of streets and roadways. The City's pavement condition is considered to be a "Fair" pavement condition. In order for the City to maintain its pavement in a state of good repair, local streets should be repaved once every 20 years and arterials should be repaved once every 10 years. This requires approximately 131 miles of paving every year. The pavement program has accumulated a backlog of approximately 1,100 miles since 1996. As a result of the new funding under Act 89, the Streets Department has funds to address long standing state of good repair needs without an additional allocation from the General Fund. During Fiscal Years 2014-2017, the Streets Department will invest in critical equipment replacements and begin to implement a strategy to address recurring state of good repair needs. This includes critical equipment replacement, street paving and pothole repair, and replacement of traffic control equipment.

The Streets Department is also responsible for the ongoing collection and disposal of residential trash and recyclables, as well as the construction, cleanliness and maintenance of the street system. The streets system in Philadelphia totals 2,575 miles - 2,180 miles of City streets, 35 miles of Fairmount Park roads and 360 miles of state highways. The Highway Unit and Sanitation Division annually collects and disposes of approximately 600,000 tons of rubbish and 125,000 tons of recycling, completes over 48,000 miles of mechanical street cleaning, clears 1,800 major illegal dump sites, and removes over 155,000 abandoned tires.

## **Sustainability and Green Initiatives**

Mayor Kenney continues the City's commitment to make Philadelphia the greenest and most sustainable city in America. To aid in achieving this goal, the Philadelphia Energy Authority has been tasked with improving energy sustainability and affordability in the City and with educating consumers on their energy choices. The City is investing in and evaluating additional options and investing in green infrastructure to better manage storm water reclamation and reduce pollution of the City's public waters. There has been extensive investment in creating more and better public green spaces, such as Love Park

in Center City, as well as green spaces along both the Delaware and Schuylkill Rivers. Finally, the City has been taking steps to further reduce automobile traffic, congestion and pollution by making Philadelphia's streets increasingly friendly to bicyclists. The City introduced its new bicycle sharing system, Indego, in 2015, as further described in "TRANSPORTATION." Bicycle share programs have been successfully implemented in other cities worldwide.

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**APPENDIX C**

**COMPREHENSIVE ANNUAL FINANCIAL REPORT OF THE CITY OF PHILADELPHIA  
FOR THE YEAR ENDED JUNE 30, 2016**

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# City of Philadelphia

P E N N S Y L V A N I A

*Founded 1682*



SEPTA bridge over Wissahickon Creek

## **Comprehensive Annual Financial Report Fiscal Year Ended June 30, 2016**

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# City of Philadelphia

P E N N S Y L V A N I A

## Comprehensive Annual Financial Report

### Fiscal Year Ended June 30, 2016



**James F. Kenney**  
Mayor

Prepared by:

**Office of the Director of Finance**

**Rob Dubow**  
Director of Finance

**Josefine Arevalo**  
Accounting Director

#### **Accounting Office**

Carl Coin

Haroon Bashir

Jamika Baucom

Nana Boateng

Randy Boucher

Sharon Donaldson

Isaac Fowowe

Christal Lewis

Eugene McCauley

Leon Minka

Rowaida Mohammed

Raimundo Rosado

Shenika Ruff

Dino Sam

Richard Sensenbrenner

Yashesh Shah

Girgis Shehata

Shante Thompson

Shantae Thorpe

Shauntise Wise



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**City of Philadelphia**  
**Comprehensive Annual Financial Report**  
**For the Fiscal Year Ended June 30, 2016**

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## **City of Philadelphia**

### **OFFICE OF THE DIRECTOR OF FINANCE**

1401 John F. Kennedy Blvd.  
Suite 1330, Municipal Services Bldg.  
Philadelphia, Pennsylvania 19102-1693

### **ROB DUBOW**

Director of Finance

February 24, 2017

To the Honorable Mayor, Members of City Council, and the People of the City of Philadelphia:

We are pleased to present the City of Philadelphia's Comprehensive Annual Financial Report for the fiscal year ended June 30, 2016. The City's management assumes full responsibility for the completeness and accuracy of the information contained in this report, based upon a comprehensive framework of internal controls that it has established for this purpose. This report must be published by February 25<sup>th</sup> of every year to fulfill the continuing disclosure requirements related to the City's outstanding bonds and as outlined in SEC Rule 15c2-12.

The City Controller has issued an unqualified ("clean") opinion on the City's financial statements for the year ended June 30, 2016. The City Controller is an independently elected public official and is required by City Home Rule Charter (City Charter) section 6-401 to appoint a certified public accountant as the deputy in charge of auditing and complete an annual audit of all City accounts. The independent auditor's report is located at the front of the financial section of this report.

Management's discussion and analysis (MD&A) immediately follows the independent auditor's report and provides a narrative introduction, overview, and analysis of the basic financial statements. The MD&A complements this letter of transmittal and should be read in conjunction with it.

### **PROFILE OF THE GOVERNMENT**

The City of Philadelphia was founded in 1682 and was merged with the County of Philadelphia in 1854. The City currently occupies an area of 135 square miles along the Delaware River, serves a population in excess of 1.5 million and is the hub of a five county metropolitan area including Bucks, Chester, Delaware and Montgomery Counties in southeast Pennsylvania.

The City is governed largely under the City Charter, which was adopted by the Electors of the City of Philadelphia on April 17, 1951, and became effective on the first Monday of January, 1952. However, in some matters, including the issuance of short-term and long-term debt, the City is governed by the laws of the Commonwealth of Pennsylvania.

Under the City Charter, there are two principal governmental entities in the City: (i) the City, which performs municipal and county functions; and (ii) the School District, which has boundaries coterminous with the City and responsibility for all public primary and secondary education. Under Article XII of the City Charter, the School District of Philadelphia operates as a separate and independent home rule school district. In December 2001, the Secretary of Education of the Commonwealth of Pennsylvania declared the School District financially distressed under Act 46, suspending the powers of the existing Board of Education and placing management of the District under control of a five-member School Reform Commission (SRC). Three SRC members, including the Chair, are appointed by the Governor, and the remaining two members are appointed by the Mayor. The SRC is responsible for the overall operation and management of the School District and educational programs, including all budgetary and financial matters.

The court system in the City, consisting of Common Pleas and Municipal Courts, is part of the Commonwealth judicial system. Although the judges are paid by the Commonwealth, most other court costs are paid by the City, with partial reimbursement from the Commonwealth.

The Charter provides for a strong mayoral form of government with the Mayor and the seventeen members of the City Council, ten from districts and seven from the City at-large, elected every four years. Minority representation



is assured by the requirement that no more than five candidates may be elected for Council-at-large by any one party or political body. The Mayor is prohibited from serving more than two consecutive terms. The District Attorney and the City Controller are elected at the mid-point of the terms of the Mayor and City Council.

Reflected in this report is the extensive range of services provided by the City of Philadelphia. These services include police and fire protection, emergency medical services, sanitation services, streets maintenance, recreational activities and cultural events, and traditional county functions such as health and human services and prisons. The City operates water and wastewater systems that service the citizens of Philadelphia and the City operates two airports, Philadelphia International Airport which handles in excess of 30 million passengers annually as well as cargo and Northeast Philadelphia Airport which handles private aircraft and some cargo.

This report includes the financial statements of the primary government, as well as its component units. Component units are legally separate organizations in which the primary government is financially accountable for that legally separate organization. In addition, when a component unit functions as an integral part of the primary government, its financial data is blended with the primary government, and treated just as though it were funds of the primary government. Otherwise, the component unit is presented discretely (separately) from the primary government.

Blended component units included in this report are:

- Philadelphia Municipal Authority
- Pennsylvania Intergovernmental Cooperation Authority

Discretely presented component units included in this report are:

- Philadelphia Gas Works
- Philadelphia Redevelopment Authority
- Philadelphia Parking Authority
- School District of Philadelphia
- Community College of Philadelphia
- Community Behavioral Health, Inc.
- Delaware River Waterfront Corporation
- Philadelphia Authority for Industrial Development

The relationship between the City and its component units is explained further in the *Notes to the Financial Statements*.

The City maintains budgetary controls to ensure compliance with legal provisions embodied in the annual appropriated budget proposed by the Mayor and approved by City Council for the fiscal year beginning July 1st. Activities of the General Fund, City Related Special Revenue Funds and the City Capital Improvement Funds are budgeted annually. The level of budgetary control (that is, the level at which expenditures cannot legally exceed the appropriated amount) is established by major class within an individual department and fund for the operating funds and by project within department and fund for the Capital Improvement Funds. The City also maintains an encumbrance accounting system for control purposes. Encumbered amounts that have not been expended at year-end are carried forward into the succeeding year but appropriations that have not been expended or encumbered at year-end are lapsed.

## **FACTORS AFFECTING ECONOMIC CONDITION**

The information presented in this report is best understood in the context of the environment in which the City of Philadelphia operates. A more comprehensive analysis of these factors is available in the City's Five-Year Financial Plan which is presented by the Mayor each year pursuant to the Pennsylvania Intergovernmental Cooperation Authority Act and can be obtained online at [www.phila.gov/finance](http://www.phila.gov/finance).

### **Local Economy**

The City benefits from its strategic geographical location, relative affordability, cultural and recreational amenities, and its growing strength in key industries. As a hub for education and medicine, the City is home to a number of institutions of higher education, medical and research facilities, and hospitals, and these institutions improve the neighborhoods around them. The City also has a strong business and personal services economy with strengths in insurance, law, finance, and leisure and hospitality. Tourism is driven by the City's attractive historic district and array of cultural assets, including museums, theatres and entertainment venues, vast park system, and dynamic



restaurant scene. The cost of living in the City is relatively moderate compared to other major metropolitan areas. In addition, the City offers the business community a large and diverse labor pool.

After decades of population loss, the City has experienced several years of consistent population growth and new investment in its neighborhoods, spurred in part by the relative affordability of housing options and the City's array of cultural amenities. Over the past decade, both personal income and per capita income have increased by 63.8% and 58.8%, respectively. The unemployment rate has returned to near pre-recession levels.

Despite this progress, significant challenges still remain. At 26%, the City's poverty rate is the highest of the 10 largest cities in the country, and personal income levels also remain relatively low in comparison to the region. These factors create an ongoing challenge to fund public services from a weaker tax base. While the City has benefited from recent population growth, the number of parent-aged adults (age 35-54) and school age children (age 5-19 years) has declined over the past five years, which is a trend that has negative implications for the tax base.

Calendar Year	Population	Personal Income (in thousands)	Per Capita Personal Income	Unemployment Rate
2015	1,567,442	77,903,831	49,701	6.9%
2014	1,560,297	66,495,223	42,617	8.0%
2013	1,553,165	65,473,002	42,155	10.0%
2012	1,547,607	64,151,742	41,452	10.5%
2011	1,538,567	62,632,520	40,708	10.8%
2010	1,526,006	56,970,074	37,333	10.8%
2009	1,547,297	54,061,223	34,939	9.6%
2008	1,540,351	54,262,716	35,228	7.1%
2007	1,530,031	50,672,227	33,118	6.0%
2006	1,520,251	47,566,075	31,288	6.2%

Over the last decade, the changes in the City's bond ratings have demonstrated a gradual improvement. The City now has "A" category ratings for its General Obligation debt from all three major rating agencies: A2 (Moody's), A+ (Standard & Poor's), and A- (Fitch). Standard & Poor's (S&P) upgraded the City from "BBB" to "A-" in June 2013 and then gave the City a double upgrade to "A+" in December 2013. This was the first time that the City has been rated in the "A" category by all three rating agencies. In 2016, the outlook for the City's general obligation credit was changed from stable to negative by both Moody's Investor Service and Standard & Poor's. This means that both rating agencies during the next year will closely monitor the City's fiscal health for signs of improvements or deterioration and could decide to downgrade the City's bond rating or remove the negative outlook. The following table shows the City's 10-year history as of June 30th.

City of Philadelphia's General Obligation Bond Ratings

Fiscal Year End	Moody's	Standard & Poor's	Fitch
2016	A2	A+	A-
2015	A2	A+	A-
2014	A2	A+	A-
2013	A2	A-	A-
2012	A2	BBB+	A-
2011	A2	BBB	A-
2010	A1	BBB	A-
2009	Baa1	BBB	BBB+
2008	Baa1	BBB	BBB+
2007	Baa1	BBB	BBB+

The consistent efforts of Philadelphia's economic development agencies and others have spurred significant economic changes throughout the City. Development in the Navy Yard has, over time, transitioned a formal naval property and active military base to a growing hub for business. The City's hotel room inventory has increased to help meet demand, and investments in commercial corridors across the City have helped existing businesses renovate, encouraged new businesses to move in, and reduced vacancy rates in those neighborhood commercial areas.

As of June 2016, Philadelphia had 48 major projects under construction concurrently, representing almost \$7.3 billion in combined public and private investment. Most significantly, in summer 2014, Comcast Corporation broke ground on a 59-story, \$1.2 billion office tower adjacent to its headquarters building in Center City. Residential and mixed use developments represent \$3.2 billion in investment across 32 projects that are under construction across various neighborhoods throughout the City. Commercial developments represent over \$1.9 billion invested across 11 projects, the majority of which are concentrated in Center City and the Navy Yard. Projects from higher education and health care institutions in the University City district represent over \$1.9 billion in investment.

### Long-Term Financial Planning

Despite these recent economic improvements, the City must budget carefully for the years ahead. Careful planning is needed to ensure the City's continued fiscal health and prepare for potential challenges, such as another economic downturn.

One of the most important measures of the City's financial health is its fund balance. Having a healthy fund balance gives the City financial flexibility, makes it better able to meet its cash flow needs, mitigate current and future financial risks and ensure predictability of future services. The City's fund balance has historically been well below levels recommended by government experts and the City's target of 6% to 8% of General Fund expenditures.

In fiscal 2016, the General Fund ended with a fund balance of \$148.3 million, a \$3.2 million decrease from fiscal 2015. The General Fund is projected to end fiscal 2017 with a fund balance of \$106.1 million. Although greater than the balance projected in the City's most recent approved Five Year Plan for FY2017-2021, \$106.1 million represents only 2.5% of the City's projected obligations. This is less than half of the low end of the City's target of 6% to 8%.

The table below illustrates the City's General Fund year-end balance for the past 5 years, and also projected forward 5 years as noted in the City's Quarterly City Managers Report (period ending Dec. 31 2016) and the City's most recent Five Year Plan (Five Year Strategic Plan for Fiscal Years 2017-2021).

General Fund  
Year End Fund Balance (Legal Basis)

Fiscal Year End	Fund Balance	Projected/ Actual
2021	107,258	Projected
2020	73,565	Projected
2019	57,849	Projected
2018	47,064	Projected
2017	106,134	Projected
2016	148,315	Actual
2015	151,531	Actual
2014	202,135	Actual
2013	256,902	Actual
2012	146,754	Actual

### Relevant Financial Policies

**PICA Act and Requirements:** PICA was created in 1991 by the Pennsylvania Intergovernmental Cooperation Authority Act for Cities of the First Class (the PICA Act) to provide financial assistance for the City of Philadelphia. Under this act and for as long as any PICA bonds are outstanding, the City is required to submit to PICA: (i) a five-year financial plan on an annual basis; and (ii) quarterly financial reports. The five-year financial plan includes projected revenues and expenditures of the principal operating funds of the City, beginning with the current fiscal year. Each five-year plan, which must be approved by PICA, is required to, among other things, eliminate any

projected deficits, balance the fiscal year budgets and provide procedures to avoid fiscal emergencies. The quarterly reports must be submitted to PICA so that PICA may determine whether the City is in compliance with the then-current five-year plan.

**Fund Balance Target:** Recognizing the importance of maintaining adequate fund balances, the City developed a target of approximately 6% to 8% of expenditures for a target fund balance.

**Continued Wage and Business Tax Reductions:** The City's largest portion of tax revenue comes from the City's Wage and Earnings Tax. This tax is collected from all employees that work within the city limits but live elsewhere, as well as all residents regardless of work location. The Business Income and Receipts Tax (BIRT) is the third largest source of General Fund revenue and is based on both gross receipts (sales) and net income (profits). The Administration is committed to ensuring job and business growth in the City and to continuing gradual reductions in the City's wage and business tax rates to make Philadelphia more competitive regionally. The current FY2017-2021 Five Year Plan includes a continuation of wage and net income cuts resumed in fiscal year 2014 after being suspended during the Great Recession.

**Conducting Regular and Comprehensive Reassessments:** The Real Property Tax is levied on the taxable assessed value of all property in the City, and is the second largest source of tax revenue in the City. Philadelphia is unlike other cities and counties that rely more heavily on the property tax portion of their budget. Philadelphia's property tax is split between the City and the School District of Philadelphia. In fiscal year 2014, the City completed the Actual Value Initiative (AVI), which involved a comprehensive reassessment of all properties in the City – 579,000 parcels – to correct outdated and partial assessments. The intent of AVI is to ensure that properties are examined annually to ensure that values reflect the market. Since 2014, the Office of Property Assessment (OPA) has completed assessment projects on various property classes to maintain and improve the accuracy of assessments until another citywide reassessment is completed for fiscal 2019, after which full reassessments will be conducted annually.

**Improving the Health of the Pension Fund:** The City and its unions have taken multiple steps to improve the health of the pension fund, which is only 45% funded. Each year, the City has been contributing more than what is legally required, including dedicating sales tax revenue in addition to the minimum municipal obligation to improve the funding status of the plan.

The contract ratified in August 2016 by District Council 33, the City's largest municipal union, increases contributions for current employees so that those with higher annual salaries pay a higher contribution rate. These additional contributions will increase the assets of the pension fund over time. The agreement with District Council 33 also created a stacked hybrid plan that is mandatory for new hires. The stacked hybrid plan provides retirement security for the City's employees while also reducing the pension system's liabilities. Under the stacked hybrid plan included in the DC33 agreement, employees receive a traditional defined benefit plan for their first \$50,000 of earnings and a 401k type plan for earnings above that amount.

Since fiscal 2008, the Pension Board has gradually lowered the pension system's assumed rate of return from 8.75% to 7.75% and has voted to make assumptions around mortality and other demographic factors more conservative. While fiscally prudent, these changes also lower the fund's actuarial funding percentage. The changes are partially responsible for recent increases in the City's minimum municipal obligation.

**Managing Health Benefit Costs:** Health benefit program costs are one the largest and fastest growing items in the City's budget. In order to address the challenges these costs present, the City has made cost-saving changes in the City-administered health benefit programs for exempt and non-represented employees, and sought changes to its labor contracts in the area of health benefits. These changes include moving to self-insurance, increasing co-pays, and implementing wellness and disease management programs.

## **Major Initiatives**

**Philadelphia Beverage Tax and Funded Programs:** In June 2016, City Council passed and the Mayor signed the Philadelphia Beverage Tax (PBT). The Beverage Tax taxes the distribution of sweetened drinks at 1.5 cents per ounce and became effective January 1, 2017. The Beverage Tax is expected to provide funding for pre-kindergarten, community schools, recreation centers and libraries. The City projects to collect approximately \$42.2 million in fiscal 2017, and slightly over \$92 million annually in fiscal years 2018 through 2021.

In September 2016, a lawsuit challenging the PBT was filed by the American Beverage Association and other co-plaintiffs in the Court of Common Pleas. This complaint was dismissed in its entirety by the Court of Common Pleas in December 2016. Following the decision, the plaintiffs appealed the ruling to the Commonwealth Court of Pennsylvania. The appeal is currently on an expedited scheduling track before the Commonwealth Court and is

scheduled for oral argument during the first week of April 2017. Mayor Kenney remains committed to providing affordable, quality pre-K to up to 6,500 children over the next five years, investing over time in the renewal of civic assets like parks and libraries, and creating 25 community schools over the next four years. However, while the litigation is pending, the City cannot fully implement its plan for these three important initiatives. Until there is certainty that the Beverage Tax – and its accompanying revenue stream – will not be invalidated by any legal challenge, the City will proceed with limited expansion of these programs.

**Pension Reform:** The Administration will continue efforts to improve the health of the pension fund by applying the reforms negotiated with District Council 33 to all City employees. When the collective bargaining agreements for the police, fire, and District Council 47 employees expire on June 30, 2017, the Administration will work with the unions and City Council to expand the reforms included in the District Council 33 agreement to all City employees.

#### **AWARDS AND ACKNOWLEDGEMENTS**

The Government Finance Officers Association of the United States and Canada (GFOA) awarded its prestigious Certificate of Achievement for Excellence in Financial Reporting to the City for its Comprehensive Annual Financial Report for the fiscal year ended June 30, 2015. This was the thirty sixth consecutive year that the City of Philadelphia has received this prestigious award. The City received this recognition by publishing a report that was well organized and readable and satisfied both generally accepted accounting principles and applicable legal requirements.

The preparation of the Comprehensive Annual Financial Report on a timely basis was made possible by the dedicated service of the entire staff of the Office of the Director of Finance as well as various City departments and component units. Each has my sincere appreciation for their valuable contributions.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R Dubow', with a long horizontal flourish extending to the right.

**ROB DUBOW**  
Director of Finance

Executive Director/CEO



**June 30, 2015**

For its Comprehensive Annual  
Financial Report  
for the Fiscal Year Ended

**City of Philadelphia**  
**Pennsylvania**

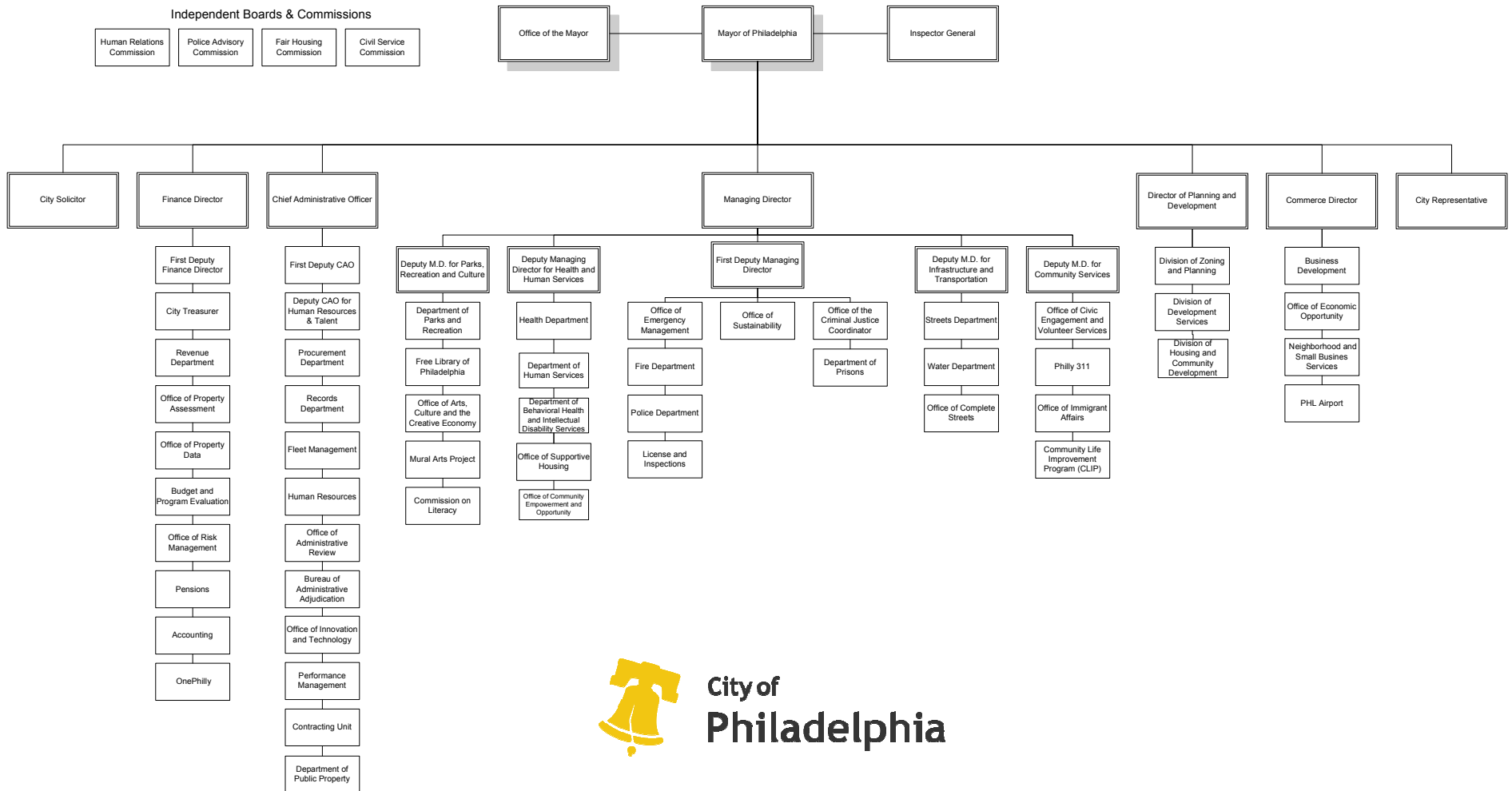
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for Excellence  
in Financial  
Reporting**

Government Finance Officers Association



# City of Philadelphia



City of  
Philadelphia



## Elected Officials

Mayor ..... James F. Kenney

### City Council

President, 5th District ..... Darrell L. Clarke

1st District ..... Mark Squilla

2nd District ..... Kenyatta Johnson

3rd District ..... Jannie L. Blackwell

4th District ..... Curtis Jones, Jr.

6th District ..... Bobby Henon

7th District ..... Maria D. Quinones-Sanchez

8th District ..... Cindy Bass

9th District ..... Cherelle L. Parker

10th District ..... Brian J. O'Neill

At-Large ..... Blondell Reynolds Brown

At-Large ..... Derek S. Green

At-Large ..... William K. Greenlee

At-Large ..... David Oh

At-Large ..... Helen Gym

At-Large ..... Al Taubenberg

At-Large ..... Allan Domb

District Attorney ..... R. Seth Williams

City Controller ..... Alan Butkovitz

### City Commissioners

Chairman ..... Anthony Clark

Commissioner ..... Al Schmidt

Commissioner ..... Lisa M. Deeley

Register of Wills ..... Ronald R. Donatucci

Sheriff ..... Jewell Williams

### First Judicial District of Pennsylvania

President Judge, Court of Common Pleas ..... Sheila Woods- Skipper

President Judge, Municipal Court ..... Marsha H. Neifield



## **Appointed Cabinet Members**

Managing Director .....	Michael DiBerardinis
Finance Director .....	Rob Dubow
Chief Administrative Officer .....	Christine Derenick-Lopez
City Solicitor .....	Sozi Tulante
Director of Planning & Development .....	Anne Fadullon
Commerce Director .....	Harold Epps
Chief of Staff .....	Jane Slusser
Deputy Mayor for Intergovernmental Affairs .....	Deborah Mahler
Deputy Mayor for Labor Relations .....	Richard Lazer
Deputy Mayor for Policy & Legislation .....	James Engler
Chief Integrity Officer .....	Ellen Kaplan
Chief Education Officer .....	Otis Hackney
Chief Diversity & Inclusion Officer .....	Nolan Atkinson
Deputy Mayor for Public Engagement .....	Nina Ahmad
City Representative .....	Sheila Hess
Inspector General .....	Amy L. Kurland





# CITY OF PHILADELPHIA

OFFICE OF THE CONTROLLER  
1230 Municipal Services Building  
1401 John F. Kennedy Boulevard  
Philadelphia, PA 19102-1679  
(215) 686-6680 FAX (215) 686-3832

ALAN BUTKOVITZ  
City Controller

CHRISTY BRADY  
Deputy City Controller

## INDEPENDENT AUDITOR'S REPORT

To the Honorable Mayor and Honorable Members  
of the Council of the City of Philadelphia

### **Report on the Financial Statements**

We have audited the accompanying financial statements of the governmental activities, the business-type activities, the aggregate discretely presented component units, each major fund, and the aggregate remaining fund information of the City of Philadelphia, Pennsylvania, as of and for the year ended June 30, 2016, and the related notes to the financial statements, which collectively comprise the City of Philadelphia, Pennsylvania's basic financial statements as listed in the table of contents.

### ***Management's Responsibility for the Financial Statements***

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### ***Auditor's Responsibility***

Our responsibility is to express opinions on these financial statements based on our audit. With the exception of the School District of Philadelphia, we did not audit the financial statements of the blended component units and the discretely presented component units listed in Note I.1, as well as the Municipal Pension Fund, the Gas Works Retirement Reserve Fund, and the Parks and Recreation Departmental and Permanent Funds which collectively represent 30%, 28%, and 17% of the total assets, net position/fund balances, and revenues, respectively. Those statements were audited by other auditors whose reports thereon have been furnished to us, and our opinions, insofar as they relate to the amounts included for those component units and funds, are based solely on the reports of the other auditors. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

**C I T Y O F P H I L A D E L P H I A**  
**OFFICE OF THE CONTROLLER**

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

***Opinions***

In our opinion, based on our audit and the reports of other auditors, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, the aggregate discretely presented component units, each major fund, and the aggregate remaining fund information of the City of Philadelphia, Pennsylvania, as of June 30, 2016, and the respective changes in financial position and, where applicable, cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

***Other Matters***

***Required Supplementary Information***

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages 15 through 29, and the required supplementary information other than management's discussion and analysis as listed in the table of contents be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the GASB who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We and other auditors have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

***Other Supplementary Information***

Our audit for the year ended June 30, 2016 was conducted for the purpose of forming opinions on the financial statements that collectively comprise the City of Philadelphia, Pennsylvania's basic financial statements. The accompanying Other Supplementary Information for the year ended June 30, 2016, as listed in the table of contents, is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The Other Supplementary Information has been subjected to the auditing procedures applied in the audits of the basic financial statements for the year ended June 30, 2016, and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America by us and other auditors. In our opinion, based on our audit, the procedures performed as described above, and the reports of other auditors, the Other Supplementary Information as listed in the table of contents is fairly stated, in all material respects, in relation to the basic financial statements as a whole for the year ended June 30, 2016.

We also previously audited, in accordance with auditing standards generally accepted in the United States of America, the basic financial statements of the City of Philadelphia, Pennsylvania as of and for the year ended June 30, 2015 (not presented herein), and have issued our report thereon dated February 24, 2016, which contained unmodified opinions on the respective financial statements of the governmental activities, the business-type activities, the aggregate discretely presented component units, each major fund, and the aggregate remaining fund information. The 2015 amounts included in the individual fund schedules of Budgetary Actual and Estimated Revenues and Obligations for the year ended June 30, 2015 are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the 2015 financial statements. The 2015 amounts included in the individual fund schedules of Budgetary Actual and Estimated

CITY OF PHILADELPHIA  
OFFICE OF THE CONTROLLER

Revenues and Obligations have been subjected to the auditing procedures applied in the audit of the 2015 basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare those financial statements or to those financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the 2015 amounts included in the individual fund schedules of Budgetary Actual and Estimated Revenues and Obligations are fairly stated in all material respects in relation to the basic financial statements as a whole for the year ended June 30, 2015.

*Other Information*

The other information, which includes the Introductory Section and Statistical Section as listed in the table of contents, is presented for the purpose of additional analysis and is not a required part of the basic financial statements. Such information has not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.



CHRISTY BRADY, CPA  
Deputy City Controller  
Philadelphia, Pennsylvania  
February 24, 2017



# City of Philadelphia

P E N N S Y L V A N I A

## *Management's Discussion & Analysis*

This narrative overview and analysis of the financial statements of the City of Philadelphia, Pennsylvania for the fiscal year ended June 30, 2016 has been prepared by the City's management. The information presented here should be read in conjunction with additional information contained in our letter of transmittal, which can be found beginning on page 1, and the City's financial statements immediately following this discussion and analysis.

### Financial Highlights

- At the end of the current fiscal year, the liabilities and deferred inflows of the City of Philadelphia exceeded its assets and deferred outflows by \$4,629.3 million. Its *unrestricted net position* showed a deficit of \$8,183.8 million. This deficiency will have to be funded from resources generated in future years.
- The City's total June 30, 2016 year-end net position increased by \$58.5 million from the prior year June 30, 2015 net position. The governmental activities of the City experienced a decrease of \$60.7 million, while the business type activities had an increase of \$119.2 million.
- For the current fiscal year, the City's governmental funds reported a combined ending fund balance of \$415.2 million, a decrease of \$65.0 million from last year. The *unassigned fund balance* of the governmental funds ended the fiscal year with a deficit of \$327.8 million, a decrease of \$107.6 million from last year.
- At the end of the current fiscal year, unrestricted fund balance (the total of the *committed*, *assigned* and *unassigned* components of the fund balance) for the general fund was \$78.0 million, of which, \$0.0 (zero) was *unassigned* which represents the residual amounts that have not been assigned to other funds. The *unassigned fund balance* was unchanged in comparison with the prior year.
- On the legally enacted budgetary basis, the City's general fund ended the fiscal year with a surplus fund balance of \$148.3 million, as compared to a \$151.5 million surplus last year. The decrease of \$3.2 million was due to an increase in expenditures that resulted in an operating deficit of \$26.8 million offset by some cancelations of prior year obligations.

### Overview of the Financial Statements

This discussion and analysis are intended to serve as an introduction and overview of the City of Philadelphia's basic financial statements. The City's basic financial statements are comprised of:

- Government-wide financial statements which provide both long-term and short-term information about the City's overall financial condition.
- Fund financial statements which provide a more detailed look at major individual portions, or funds, of the City.
- Notes to the financial statements which explain some of the information contained in the financial statements and provide more detailed data.
- Other supplementary information which further explains and supports the information in the financial statements.

**Government-wide financial statements.** The government-wide financial statements report information about the City as a whole using accounting methods similar to those used by a private-sector business. The two statements presented are:

The statement of net position which includes all of the City's assets, liabilities, and deferred inflows/outflows of resources, with the difference reported as net position. Over time, increases or decreases in net positions are an indicator of whether the City's financial position is improving or deteriorating.

The statement of activities presents revenues and expenses and their effect on the change in the City's net position during the current fiscal year. These changes in net position are recorded as soon as the underlying event giving rise to the change occurs, regardless of when cash is received or paid.

The government-wide financial statements of the City are reflected in three distinct categories:

1. **Governmental activities** are primarily supported by taxes and state and federal grants. The governmental activities include general government; economic and neighborhood development; public health, welfare and safety; cultural and recreational; streets, highways and sanitation; and the financing activities of the City's two blended component units - the Pennsylvania Intergovernmental Cooperation Authority and Philadelphia Municipal Authority.
2. **Business-type activities** are supported by user fees and charges which are intended to recover all or a significant portion of their costs. The City's water and waste water systems, airport and industrial land bank are all included as business type activities.

These first two activities comprise the primary government of Philadelphia.

3. **Component units** are legally separate entities for which the City of Philadelphia is financially accountable or has oversight responsibility. Financial information for these component units is reported separately from the financial information presented for the primary government. The City's government-wide financial statements contain eight distinct component units; the Philadelphia School District, Community College of Philadelphia, Community Behavioral Health, Gas Works, Parking Authority, Delaware River Waterfront Corporation, Philadelphia Authority for Industrial Development and the Redevelopment Authority.

**Fund financial statements.** The fund financial statements provide detailed information about the City's most significant funds, not the City as a whole. Funds are groupings of activities that enable the City to maintain control over resources that have been segregated for particular purposes or objectives. All of the funds of the City of Philadelphia can be divided into three categories: governmental funds, proprietary funds and fiduciary funds.

1. **Governmental funds.** The governmental funds are used to account for the financial activity of the City's basic services, similar to those described for the governmental activities in the government-wide financial statements. However, unlike the government-wide statements which provide a long-term focus of the City, the fund financial statements focus on a short term view of the inflows and outflows of expendable resources, as well as on the balances of expendable resources available at the end of the fiscal year. The financial information presented for the governmental funds are useful in evaluating the City's short term financing requirements.

To help the readers of the financial statements better understand the relationships and differences between the long term view of the government-wide financial statements from the short term view of the fund financial statements, reconciliations are presented between the fund financial statements and the government-wide statements.

The City maintains twenty-two individual governmental funds. Financial information is presented separately for the general fund, grants revenue fund and health choices behavioral health fund,

which are considered to be major funds. Data for the remaining nineteen are combined into a single aggregated presentation. Individual fund data for each of these non-major governmental funds is presented in the form of combining statements in the supplementary information section of this financial report.

2. **Proprietary funds.** The proprietary funds are used to account for the financial activity of the City's operations for which customers are charged a user fee; they provide both a long and short term view of financial information. The City maintains three enterprise funds which are a type of proprietary funds - the airport, water and waste water operations, and industrial land bank. These enterprise funds are the same as the business-type activities in the government-wide financial statements, but they provide more detail and additional information, such as cash flows.
3. **Fiduciary funds.** The City of Philadelphia is the trustee, or fiduciary, for its employees' pension plans. It is also responsible for the Gas Works' employees' retirement reserve assets. Both of these fiduciary activities are reported in separate statements of fiduciary net positions and changes in fiduciary net positions. They are not reflected in the government-wide financial statements because the assets are not available to support the City's operations.

The following chart summarizes the various components of the City's government-wide and fund financial statements, including the portion of the City government they cover, and the type of information they contain.

**Summary of the City of Philadelphia's Government-wide and Fund Financial Statements**

	Government-wide <u>Statements</u>	Governmental <u>Funds</u>	Fund Statements Proprietary <u>Funds</u>	Fiduciary <u>Funds</u>
<b>Scope</b>	Entire city government (except fiduciary funds) and city's component units	Activities of the city that are not proprietary or fiduciary in nature, such as fire, police, refuse collection	Activities the city operates similar to private businesses. Airports, water/waste water system & the land bank.	Activities for which the city is trustee for someone else's assets, such as the employees' pension plan
<b>Required Financial Statements</b>	Statement of Net Position Statement of Activities	Balance Sheet Statement of Revenues, Expenditures and Changes in Fund Balances	Statement of Net Position Statement of Revenues, Expenses and Changes in Net Position Statement of Cash Flows	Statement of Fiduciary Net Position Statement of Changes in Fiduciary Net Position
<b>Accounting basis/ measurement focus</b>	Accrual accounting Economic resources	Modified accrual accounting Current financial resources	Accrual accounting Economic resources	Accrual accounting Economic resources
<b>Type of asset, liability and deferred inflow/outflow of resources</b>	All assets, liabilities, deferred inflow/outflow of resources, financial and capital, short and long term	Only assets expected to be used up and liabilities and deferred inflows of resources that come due during the current year or soon thereafter; no capital assets are included	All assets, liabilities, deferred inflow/outflow of resources, financial and capital, short and long term	All assets and liabilities, both short and long term; there are currently no capital assets, although there could be in the future
<b>Type of inflow and outflow information</b>	All revenues and expenses during the year, regardless of when cash is received or paid	Only revenues for which cash is received during the year or soon after the end of the year; only expenditures when goods or services are received and payment is due during the year or soon thereafter.	All revenues and expenses during the year, regardless of when cash is received or paid	All revenues and expenses during the year, regardless of when cash is received or paid

**Notes to the financial statements.** The notes provide additional information that is essential to a full understanding of the data presented in the government-wide and fund financial statements. The notes can be found immediately following the basic financial statements.

**Other information.** In addition to the basic financial statements and accompanying notes, this report also presents additional information in three separate sections: *required supplementary information*, *supplementary information* and *statistical information*.

- **Required supplementary information.** Certain information regarding pension plan funding progress for the City and its component units, as well as budgeted and actual revenues, expenditures

and encumbrances for the City's major governmental funds is presented in this section. This required supplementary information can be found immediately following the notes to the financial statements.

• **Supplementary information.** Combining statements for non-major governmental and fiduciary funds, as well as additional budgetary schedules for the City's governmental and proprietary funds are presented in this section. This supplementary information can be found immediately following the required supplementary information.

• **Statistical information.** Long term trend tables of financial, economic, demographic and operating data are presented in the statistical section. This information is located immediately after the supplementary information.

## Government-wide Financial Analysis

**Net position.** As noted earlier, net positions are useful indicators of a government's financial position. At the close of the current fiscal year, the City of Philadelphia's liabilities & deferred inflows exceeded its assets & deferred outflows by \$4,629.3 million.

Capital assets (land, buildings, roads, bridges and equipment), less any outstanding debt issued to acquire these assets, comprise a large portion of the City of Philadelphia's net position, \$2,278.9 million. Although these capital assets assist the City in providing services to its citizens, they are generally not available to fund the operations of future periods.

A portion of the City's net position, \$1,275.6 million, is subject to external restrictions as to how they may be used. The remaining component of net position is unrestricted. Unrestricted net position ended the fiscal year with a deficit of \$8,183.8 million. The governmental activities reported negative *unrestricted net position* of \$7,904.5 million. The business type activities reported an unrestricted net position deficit of \$279.3 million. Any deficits will have to be funded from future revenues.

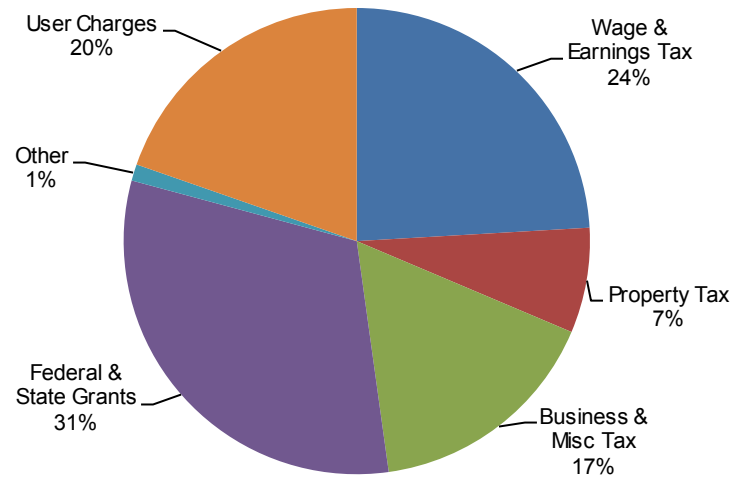
Following is a comparative summary of the City's assets, liabilities and net position:

**City of Philadelphia's Net Position**  
(millions of USD)

	Governmental Activities			Business-type Activities			Total Primary Government		
	2016	2015	% Change	2016	2015	% Change	2016	2015	% Change
Current and other assets	2,137.6	2,063.4	3.60%	1,582.0	1,714.2	-7.71%	3,719.6	3,777.6	-1.54%
Capital assets	2,373.6	2,314.0	2.58%	4,220.8	4,098.5	2.98%	6,594.4	6,412.5	2.84%
<b>Total assets</b>	<b>4,511.2</b>	<b>4,377.4</b>	3.06%	<b>5,802.8</b>	<b>5,812.7</b>	-0.17%	<b>10,314.0</b>	<b>10,190.1</b>	1.22%
<b>Deferred Outflows</b>	878.6	439.4	99.95%	158.7	118.3	34.15%	1,037.2	557.7	85.98%
Long-term liabilities	4,600.2	4,612.9	-0.28%	3,182.9	3,386.3	-6.01%	7,783.1	7,999.2	-2.70%
Other liabilities	7,074.1	6,463.5	9.45%	1,079.2	968.9	11.38%	8,153.3	7,432.4	9.70%
<b>Total liabilities</b>	<b>11,674.3</b>	<b>11,076.4</b>	5.40%	<b>4,262.1</b>	<b>4,355.2</b>	-2.14%	<b>15,936.4</b>	<b>15,431.6</b>	3.27%
<b>Deferred Inflows</b>	39.7	3.9	915.58%	4.4	-	-	44.1	3.9	1027.81%
<b>Net Position:</b>									
Net Investment in capital assets	955.2	1,040.8	-8.22%	1,323.7	1,088.1	21.65%	\$2,278.9	2,128.9	7.05%
Restricted	625.1	576.3	8.47%	650.5	766.0	-15.08%	\$1,275.6	1,342.3	-4.97%
Unrestricted	(7,904.5)	(7,880.6)	-0.30%	(279.3)	(278.4)	-0.32%	(8,183.8)	(8,159.0)	-0.30%
<b>Total Net Position</b>	<b>(6,324.2)</b>	<b>(6,263.5)</b>	-0.97%	<b>1,694.9</b>	<b>1,575.7</b>	7.56%	<b>(4,629.3)</b>	<b>(4,687.8)</b>	1.25%

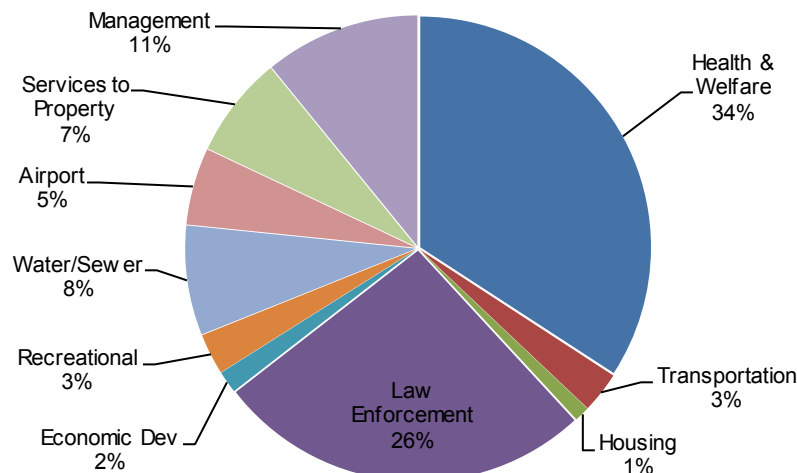


**Changes in net position.** The City's total revenues this year, \$7,493.5 million, exceeded total costs of \$7,413.0 million by \$80.5 million. Approximately 48% of all revenue came from wage and earnings taxes, property taxes, business and miscellaneous taxes. State, Federal and local grants account for another 31%, and the remaining 21% of the revenue coming from user charges, fines, fees and various other sources. The City's expenses cover a wide range of services, of which approximately 60% are related to the health, welfare and safety of the general public.



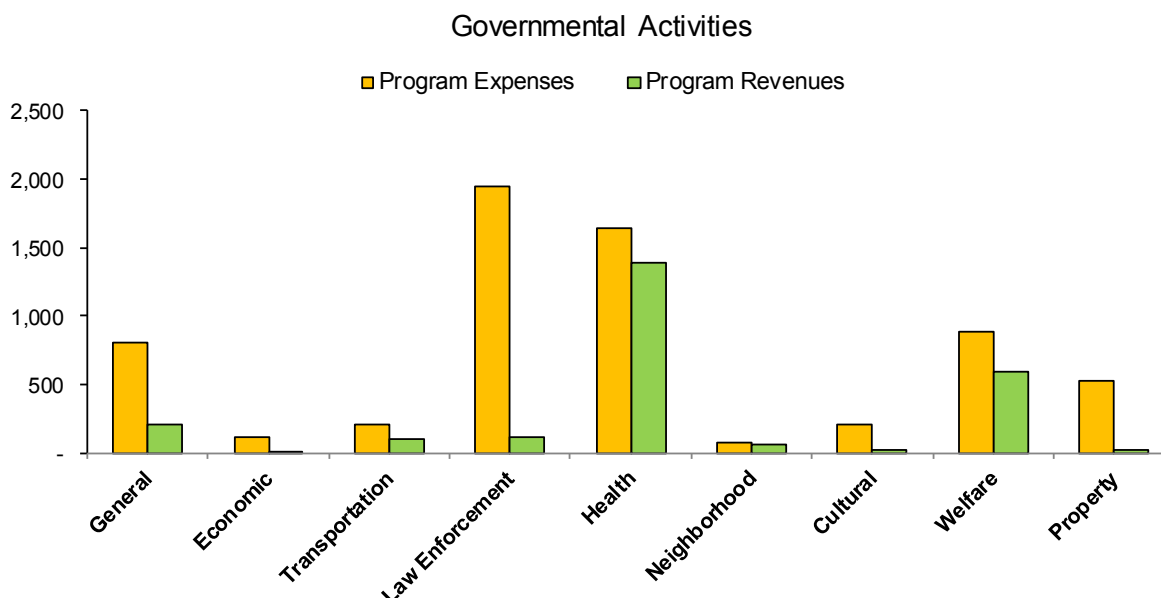
Total revenues increased by \$259.1 million, total expenses increased by \$512.7 million over last year. This resulted in the Change in Net Position, before prior period adjustments, being \$253.6 million less than in the previous year. Net positions were increased by \$106.1 million from Charges for Services, \$79.7 million from Operating Grants and Contributions, \$79.6 million for Wage and Earning Taxes, \$119.2 million from Other Taxes, \$0.3 million from Unrestricted Grants and Contributions, \$8.1 million from Unrestricted Interest; and decreased by \$132.8 million from Capital Grants and Contributions, and \$1.1 million from Property Taxes.

Expense increased by \$512.7 million with decreases of \$0.8 million in Housing and Neighborhood Development, \$8.0 million in Interest in Long Term Debt; and increases of \$17.9 million in Economic Development, \$14.3 million in Transportation, \$178.6 million for Judiciary and Law Enforcement, \$158.5 million in Conservation of Health, \$5.8 million in Cultural & Recreational, \$33.2 million in Improvement of the General Welfare, \$25.7 million in Services to Taxpayer Property, \$42.8 million in General Management, \$18.8 million in Water and Waste Water and \$25.9 million in Airport.



## Governmental Activities

The governmental activities of the City resulted in a \$92.3 million decrease in net position before prior period adjustments. The following chart reflects program expenses and program revenue. The difference (net cost) must be funded by Taxes, Grants & Contributions and Other revenues.



The following table summarizes the City's most significant governmental programs. Costs, program revenues and net cost are shown in the table. The net cost shows the financial burden that was placed on the City's taxpayers by each of these functions.

(millions of USD)

	Program Costs			Program Revenues			Net Cost		
	2016	2015	% Change	2016	2015	% Change	2016	2015	% Change
General Welfare	\$ 888.6	\$ 855.4	3.9%	\$ 590.1	\$ 590.8	-0.1%	\$ 298.5	\$ 264.6	12.8%
Judiciary & Law Enforcement	1,953.7	1,775.1	10.1%	113.2	111.3	1.7%	1,840.5	1,663.8	10.6%
Public Health	1,645.4	1,486.9	10.7%	1,392.5	1,276.0	9.1%	252.9	210.9	19.9%
General Governmental	806.3	771.5	4.5%	213.1	220.2	-3.2%	593.2	551.3	7.6%
Services to Property	527.7	501.9	5.1%	20.3	31.1	-34.7%	507.4	470.8	7.8%
Housing, Economic & Cultural	622.0	584.9	6.3%	202.5	220.3	-8.1%	419.5	364.6	15.1%
	<b>\$ 6,443.7</b>	<b>\$ 5,975.7</b>	<b>7.8%</b>	<b>\$ 2,531.7</b>	<b>\$ 2,449.7</b>	<b>3.3%</b>	<b>\$ 3,912.0</b>	<b>\$ 3,526.0</b>	<b>10.9%</b>

The cost of all governmental activities this year was \$6,443.7 million; the amount that taxpayers paid for these programs through tax payments was \$3,606.1 million. The federal and state governments and other charitable organizations subsidized certain programs with grants and contributions in the amount of \$2,152.6 million while those who benefited from the programs paid \$379.2 million through fees and charges. Unrestricted grants and contributions and other general types of revenues accounted for the balance of revenues in the amount of \$245.1 million. The difference of \$60.7 million represents a reduction in net positions.

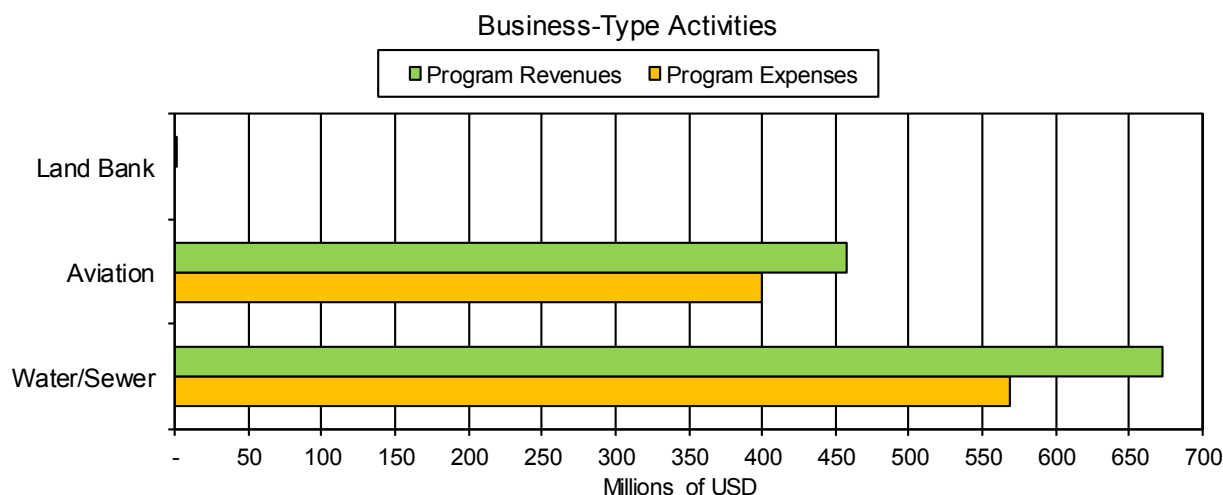
The following table shows a more detailed breakdown of program costs and related revenues for both the governmental and business-type activities of the City:

**City of Philadelphia-Net Position**

(millions of USD)	Governmental Activities		Business-type Activities		Total		% Change
	2016	2015	2016	2015	2016	2015	
<b>Revenues:</b>							
Program revenues:							
Charges for services	\$ 379.2	\$ 378.4	\$ 1,104.1	\$ 998.8	\$ 1,483.3	\$ 1,377.2	7.7%
Operating grants and contributions	2,090.9	2,011.2	0.9	0.9	2,091.8	2,012.1	4.0%
Capital grants and contributions	61.8	60.1	26.8	161.3	88.6	221.4	-60.0%
General revenues:							
Wage and earnings taxes	1,816.8	1,737.2	-	-	1,816.8	1,737.2	4.6%
Property taxes	550.2	551.3	-	-	550.2	551.3	-0.2%
Other taxes	1,239.2	1,120.0	-	-	1,239.2	1,120.0	10.6%
Unrestricted grants and contributions	185.4	185.1	1.9	1.9	187.3	187.0	0.2%
Unrestricted Interest	28.0	24.1	8.3	4.1	36.3	28.2	28.7%
<b>Total revenues</b>	<b>6,351.5</b>	<b>6,067.4</b>	<b>1,142.0</b>	<b>1,167.0</b>	<b>7,493.5</b>	<b>7,234.4</b>	<b>3.6%</b>
<b>Expenses:</b>							
Economic development	115.3	97.4	-	-	115.3	97.4	18.4%
Transportation	212.9	198.6	-	-	212.9	198.6	7.2%
Judiciary & law enforcement	1,953.7	1,775.1	-	-	1,953.7	1,775.1	10.1%
Conservation of health	1,645.4	1,486.9	-	-	1,645.4	1,486.9	10.7%
Housing & neighborhood development	80.1	80.9	-	-	80.1	80.9	-1.0%
Cultural & recreational	213.8	208.0	-	-	213.8	208.0	2.8%
Improvement of the general welfare	888.6	855.4	-	-	888.6	855.4	3.9%
Services to taxpayer property	527.7	502.0	-	-	527.7	502.0	5.1%
General management	648.1	605.3	-	-	648.1	605.3	7.1%
Interest on long term debt	158.2	166.2	-	-	158.2	166.2	-4.8%
Water & waste water	-	-	569.0	550.2	569.0	550.2	3.4%
Airport	-	-	400.2	374.3	400.2	374.3	6.9%
Industrial land bank	-	-	-	-	-	-	0.0%
<b>Total expenses</b>	<b>6,443.8</b>	<b>5,975.8</b>	<b>969.2</b>	<b>924.5</b>	<b>7,413.0</b>	<b>6,900.3</b>	<b>7.4%</b>
Increase (dec.) in net position before transfers & special items	(92.3)	91.6	172.8	242.5	80.5	334.1	
Transfers	31.6	30.3	(31.6)	(30.3)	-	-	
<b>Increase (dec) in Net Position</b>	<b>(60.7)</b>	<b>121.9</b>	<b>141.2</b>	<b>212.2</b>	<b>80.5</b>	<b>334.1</b>	
Net Position - Beginning	(6,263.5)	(1,964.6)	1,575.7	1,893.6	(4,687.8)	(71.0)	6502.5%
Adjustment	-	(4,420.8)	(22.0)	(530.1)	(22.0)	(4,950.9)	
<b>Net Position - End</b>	<b>\$ (6,324.2)</b>	<b>\$ (6,263.5)</b>	<b>\$ 1,694.9</b>	<b>\$ 1,575.7</b>	<b>\$ (4,629.3)</b>	<b>\$ (4,687.8)</b>	<b>-1.2%</b>

**Business-type Activities**

Business-type activities resulted in a \$141.3 million increase in net position before prior period adjustments. This increase was comprised of an increase in net position for water/wastewater of \$77.6 million, an increase to aviation of \$62.0 million, and an increase for industrial & commercial development operations of \$1.7 million.



### Financial Analysis of the Government's Funds

**Governmental funds.** The purpose of the City's governmental funds is to provide financial information on the *short term inflow, outflow and balance* of resources. This information is useful in assessing the City's ability to meet its near-term financing requirements. *Unassigned fund balance* serves as a useful measure of the City's net resources available for spending at the end of the fiscal year.

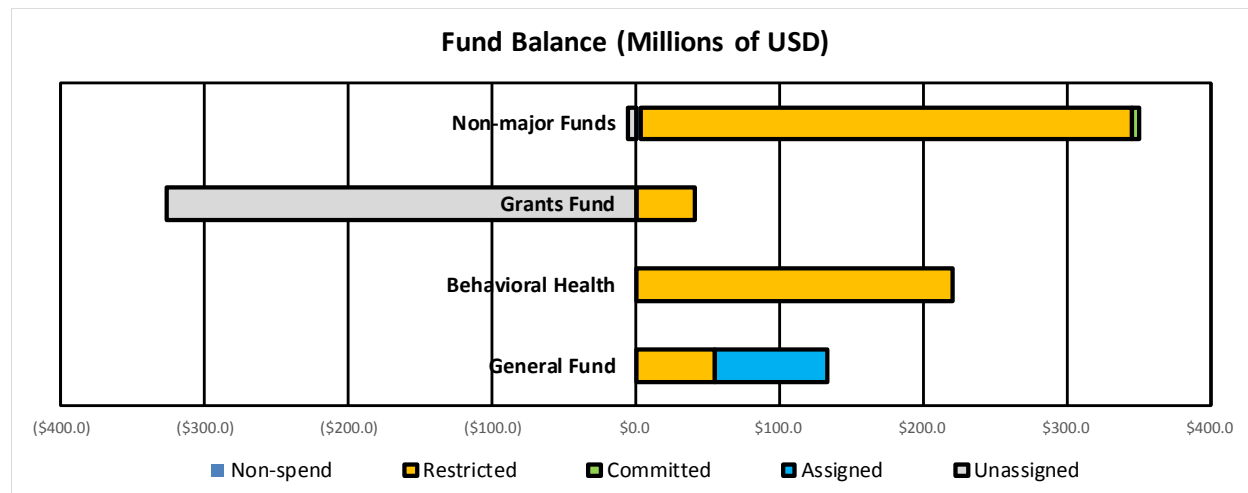
At the end of the fiscal year the City's governmental funds reported a *combined fund balance* of \$415.2 million, a decrease of \$65.0 million over last year. Of the total fund balance, \$3.1 million represents *non-spendable fund balance* for amounts that cannot be spent.

In addition, \$657.3 million represents *restricted fund balance* due to externally imposed constraints by outside parties, or law, for the following purposes:

Economic Development	\$	12.3
Public Safety Emergency Phone System		40.8
Streets & Highways		37.1
Housing and Neighborhood Development		20.8
Health Services		11.2
Behavioral Health		220.1
Parks & Recreation		0.8
Libraries & Museums		3.0
Intergovernmental Financing		25.5
Central Library Project		1.7
Stadium Financing		6.9
Cultural & Commercial Corridor Project		7.4
Pension Obligation Bonds		44.8
Debt Service Reserve		81.6
Capital Projects		133.1
Trust Purposes		10.2
Total Restricted Fund Balance	\$	657.3

The fund balance is further broken down as to *committed fund balance* for Prisons \$2.9 million and Parks and Recreation \$1.7 million. The difference between the non-spendable, restricted, committed, assigned and combined fund balance is a deficit of \$327.8 million which constitutes *unassigned fund balance*, this deficit must be funded by future budgets.

The general fund, the primary operating fund of the City, reported *assigned fund balance* of \$78.0 million and *unassigned fund balance* of \$0.0 (zero) at the end of the fiscal year.



Overall, the total fund balance of the General Fund decreased by \$23.0 million during the current fiscal year, compared to a decrease of \$56.2 million in the prior fiscal year. Some of the key factors contributing to this change are:

#### Revenues:

- Total current year revenues (\$3,588.9 million) increased between fiscal years, with a \$198.8 million (5.9%) increase from the prior fiscal year (\$3,390.1 million).
- This increase was primarily due to \$196.8 million increase in tax revenue.
- All other revenues remained relatively flat compared to the prior fiscal year.

#### Expenditures and Other Financing Sources (Uses):

- Total current year Expenditures and Other Financing Sources (Uses) (\$3,611.9 million) increased between fiscal years, with a \$165.6 million (4.8%) increase from prior fiscal year (\$3,446.3 million)
- This increase was primarily due to a \$91.5 million increase in expenditures related to Judiciary and Law Enforcement (Police, Prisons and the Courts).

The Health Choices Behavioral Health fund ended the fiscal year with a total fund balance of \$220.1 million, the entire amount is reserved for a contractually required equity reserve and reinvestment initiatives. The total fund balance increased during the fiscal year by \$20.5 million.

The Grants Revenue fund has a total fund balance deficit of \$281.7 million which is comprised of a positive restricted fund balance of \$40.8 million for emergency telephone system programs and a deficit unassigned fund balance of \$322.5 million. Because most programs accounted for in the grants revenue fund are reimbursement based, it is not unusual for the grants revenue fund to end the fiscal year with a deficit unassigned fund balance. The overall fund balance of the grants revenue fund experienced a decrease of \$133.4 million during the current fiscal year.

**Proprietary funds.** The City's proprietary funds provide the same type of financial information found in the government-wide financial statements, but in slightly more detail. The *total net position* of the proprietary funds increased by \$141.3 million during the current fiscal year. This increase is attributable

to the water/wastewater system which had an increases of \$77.6 million, airport operations which experienced an increase of \$62.0 million, and industrial & commercial land bank operations which also experienced an increase of \$1.7 million.

The proprietary funds reported an *unrestricted net position* deficit of \$279.3 million. The table below indicates the *unrestricted net position* for the water and waste water operations, the airport, and the industrial and commercial land bank operations for the current and previous fiscal years.

	Unrestricted Net Position (deficit)		
	2016	2015	Change
Water and Waste Water	(\$258.2)	(\$235.9)	(\$22.3)
Aviation	(\$84.7)	(\$104.3)	\$19.6
Land Bank	\$63.6	\$61.9	\$1.7
	<u>(\$279.3)</u>	<u>(\$278.3)</u>	<u>(\$1.0)</u>

The \$22.3 million change in the Water and Waste Water *unrestricted net position* is primarily due to a prior period adjustment of \$22.0 million which related to items that were capitalized and should have been expensed in prior years.

### General Fund Budgetary Highlights

The following table shows the General Fund's year end fund balance for the five most recent years:

	(millions of USD)	
General Fund at June 30	Fund Balance Available for Appropriation	Increase (Decrease)
2016	\$ 148.3	\$ (3.2)
2015	151.5	(50.6)
2014	202.1	(54.8)
2013	256.9	110.1
2012	146.8	146.7

The general fund's budgetary fund balance surplus of \$148.3 million differs from the general fund's fund financial statement unassigned fund balance of \$0.0 (zero) by \$148.3 million, which represents the following:

1. The unearned portion of the business income & receipts tax of \$169.5 million. Business income & receipts tax (BIRT prepaids) is received prior to being earned but have no effect on budgeted cash receipts.
2. Since governments cannot report a deficit in unassigned fund balance (GASB No. 54, paragraph 15), the resulting \$21.2 million deficit is reclassified to assigned fund balance.

The charts below illustrate:

- A. The reconciliation of Total Fund Balance - Budget Basis versus GAAP (Modified Accrual)
- B. The components of Fund Balance for GAAP (Modified Accrual) basis
- C. The reconciliation of Unassigned Fund Balance – Budget Basis versus GAAP (Modified Accrual)

	(millions of USD)		
<b>A. Budget to GAAP Basis Reconciliation</b>	<b>6/30/2016</b>	<b>6/30/2015</b>	<b>6/30/2014</b>
Budget Basis Fund Balance	\$ 148.3	\$ 151.5	\$ 202.1
1. Less: BIRT six (6) months pre-pays	(169.5)	(178.5)	(179.1)
2. Add: Encumbrances	99.2	108.9	103.1
3. Add: Reserves	54.5	73.6	85.6
Modified Accrual Basis Fund Balance	<u>\$ 132.5</u>	<u>\$ 155.5</u>	<u>\$ 211.7</u>
<b>B. Modified Accrual Basis Fund Balance</b>	<b>6/30/2016</b>	<b>6/30/2015</b>	<b>6/30/2014</b>
Restricted	\$ 54.5	\$ 73.6	\$ 85.6
Assigned			
Encumbrances	99.2	108.9	103.1
Reclassification of Unassigned	(21.2)	(27.0)	-
Assigned	<u>78.0</u>	<u>81.9</u>	<u>103.1</u>
Unassigned	-	-	23.0
Modified Accrual Basis Fund Balance	<u>\$ 132.5</u>	<u>\$ 155.5</u>	<u>\$ 211.7</u>
<b>C. Budget to GAAP Basis Reconciliation</b>	<b>6/30/2016</b>	<b>6/30/2015</b>	<b>6/30/2014</b>
Budget Basis Fund Balance	\$ 148.3	\$ 151.5	\$ 202.1
1. Less: BIRT six (6) months pre-pays	(169.5)	(178.5)	(179.1)
2. Less: Reclass to Assigned Fund Balance	21.2	27.0	-
Unassigned Fund Balance	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 23.0</u>

Differences between the original budget and the final amended budget resulted primarily from decreases in revenue estimates and increases to appropriations. Total appropriations increased by \$75.9 million; from an original budget of \$3,998.1 million to a final amended budget of \$4,074.0 million. The largest increases were required to support the following activities:

- \$22.2 million for Police operations
- \$20.1 million for Street maintenance and repair
- \$27.1 million for Fire operations

### Capital Asset and Debt Administration

**Capital assets.** The City of Philadelphia's investment in capital assets for its governmental and business-type activities amounts to \$6.6 billion, net of accumulated depreciation, at the end of the current fiscal year. These capital assets include items such as roads, runways, bridges, water and sewer mains, streets and street lighting, land, buildings, improvements, sports stadiums, vehicles, commuter trains, machinery, computers and general office equipment. The table below shows a breakdown of the City's Capital Improvements over the past four fiscal years.

	(millions of USD)			
	<b>FY 2016</b>	<b>FY 2015</b>	<b>FY 2014</b>	<b>FY 2013</b>
Airport Terminal & Airfield Improvements	\$ 161.1	\$ 196.2	\$ 74.4	\$ 149.6
Water & Wastewater Improvements	176.0	175.0	141.3	142.5
Streets, Highways & Bridges Improvements	77.9	63.6	46.8	63.9
Transit System Improvements	10.6	1.3	2.2	3.9
Parks, Playgrounds, Museums & Recreational Facilities	37.9	33.6	18.6	27.1
Libraries Improvements	1.6	3.3	0.2	0.7
Police & Fire Facilities	7.7	18.9	5.9	18.5
City Hall & Municipal Buildings Improvements	2.7	5.9	6.2	3.3
Computers, Servers, Software & IT Infrastructure	11.4	19.4	16.5	9.6
Economic Development	11.2	12.7	11.8	4.7
Other and Non-Enterprise Vehicles	32.3	10.7	10.9	11.2
	<u>\$ 530.4</u>	<u>\$ 540.6</u>	<u>\$ 334.8</u>	<u>\$ 435.0</u>

The following table shows the capital assets by category.

*City of Philadelphia's Capital Assets-Net of Depreciation*

(millions of USD)

	Governmental activities			Business-type activities			Total		
	2016	2015	Inc/(Dec)	2016	2015	Inc/(Dec)	2016	2015	Inc/(Dec)
Land	\$ 829	\$ 818	\$ 11	\$ 156	\$ 153	\$ 3	\$ 985	\$ 971	\$ 14
Fine Arts	1	1	-	-	-	-	1	1	-
Buildings	708	735	(27)	1,552	1,399	153	2,260	2,134	126
Improvements other than buildings	95	113	(18)	173	168	5	268	281	(13)
Machinery & equipment	124	92	32	26	25	1	150	117	33
Infrastructure	496	444	52	1,581	1,492	90	2,077	1,936	141
Construction in progress	43	36	7	728	856	(128)	771	892	(121)
Transit	59	63	(4)	-	-	-	59	63	(4)
Intangible Assets	19	12	7	5	6	(1)	24	18	6
<b>Total</b>	<b>\$ 2,374</b>	<b>\$ 2,314</b>	<b>\$ 60</b>	<b>\$ 4,221</b>	<b>\$ 4,099</b>	<b>\$ 122</b>	<b>\$ 6,594</b>	<b>\$ 6,413</b>	<b>\$ 182</b>

More detailed information about the City's capital assets can be found in notes I.6 & III.5 to the financial statements.

**Long-term debt.** At year end the City had \$7.8 billion in long term debt outstanding. Of this amount, \$5.2 billion represents bonds outstanding (comprised of \$2.1 billion of debt backed by the full faith and credit of the City, and \$3.1 billion of debt secured solely by specific revenue sources) while \$2.5 billion represents other long term obligations. The following schedule shows a summary of all long term debt outstanding.

*City of Philadelphia's Long Term Debt Outstanding*

(millions of USD)

	Governmental activities		Business-type activities		Total	
	2016	2015	2016	2015	2016	2015
<b><u>Bonds Outstanding:</u></b>						
General obligation bonds	2,113.4	2,027.7	-	-	2,113.4	2,027.7
Revenue bonds	-	-	3,128.0	3,336.1	3,128.0	3,336.1
<b>Total Bonds Outstanding</b>	<b>2,113.4</b>	<b>2,027.7</b>	<b>3,128.0</b>	<b>3,336.1</b>	<b>5,241.4</b>	<b>5,363.8</b>
<b><u>Other Long Term Obligations:</u></b>						
Service agreements	1,919.7	2,038.8	-	-	1,919.7	2,038.8
Employee related obligations	488.0	459.5	46.4	45.2	534.4	504.7
Indemnities	70.4	74.0	8.5	4.7	78.9	78.7
Leases	8.7	12.9	-	-	8.7	12.9
Other	-	-	-	0.3	-	0.3
<b>Total Other Long Term Obligations</b>	<b>2,486.8</b>	<b>2,585.2</b>	<b>54.9</b>	<b>50.2</b>	<b>2,541.7</b>	<b>2,635.4</b>
<b>Total Long Term Debt Outstanding</b>	<b>4,600.2</b>	<b>4,612.9</b>	<b>3,182.9</b>	<b>3,386.3</b>	<b>7,783.1</b>	<b>7,999.2</b>



Significant events related to borrowing during the current fiscal year include the following:

- The City has statutory authorizations to negotiate temporary loans for periods not to extend beyond the fiscal year. The City borrows funds to pay debt service and required pension contributions due before the receipt of the real estate taxes. The City borrowed and repaid \$175.0 million in Tax and Revenue Anticipation Notes by June 2016 plus interest. In accordance with statute there are no temporary loans outstanding at year end.
- In July 2015, the City issued \$138.8 million of General Obligation Refunding Bonds Series 2015A. The total proceeds were \$157.0 million (including a premium of \$18.2 million). The proceeds of the sale were used to refund the Series 2006, 2008B, and 2011 bonds.
- In September 2015, the City issued \$191.6 million of General Obligation Bonds Series 2015B. The 2015B bonds were issued for the purpose of funding the City's capital projects and paying the costs relating to the issuance of the 2015B bonds.
- In September 2015, the City issued \$97.8 million of Airport Revenue Bonds Series 2015A Bonds to refund all of the outstanding Series 2005A Bonds in the amount of \$105.9 million and to pay the costs of issuing the Series 2015A Bonds.
- In February 2016, PAID issued \$95.4 million of City Service Agreement Revenue Refunding Bonds Series 2016A and 2016B. The total proceeds of the 2016A bonds were \$104.6 million (which includes a premium of \$15.4 million). The 2016A Bonds were issued to partially refund \$99.5 million of the Series 2006A Bonds and to pay the costs of issuing the 2016A Bonds. The total proceeds of the 2016B bonds were \$6.8 million (which includes a premium of \$0.6 million). The 2016B Bonds were issued to refund \$6.7 million of the Series 2005 Bonds and to pay the costs of issuing the 2016B Bonds.
- In July 2010, the City of Philadelphia - Water Department received approval from the Pennsylvania State Infrastructure Financing Authority ("PENNVEST") for the Green Infrastructure Project (Series 2010B); bringing the total financing from PENNVEST to \$214.9 million. During fiscal year 2016, PENNVEST draw-downs totaled \$5.8 million. The funding is through low interest loans of 1.193% during the construction period and for the first five years of amortization (interest only payment is due during the construction period up to three years) and 2.107% for the remaining fifteen years.

Currently the City's bonds as rated by Moody's, Standard & Poor's and Fitch are as follows:

Bond Type	Moody's	Standard & Poor's	Fitch
General Obligation Bonds	A2	A+	A-
Water Revenue Bonds	A1	A+	A+
Aviation Revenue Bonds	A2	A	A

The City is subject to a statutory limitation established by the Commonwealth of Pennsylvania as to the amount of tax supported general obligation debt it may issue. The limitation is equal to 13.50% of the average assessed valuations of properties over the past ten years. As of June 30, 2016 the legal debt limit was \$5,454.0 million. There is \$1,841.4 million of outstanding tax supported debt leaving a legal debt margin of \$3,612.6 million.

More detailed information about the City's debt activity can be found in note III.7 to the financial statements.

### Economic Factors and Next Year's Budgets and Rates

The following factors have been considered in preparing the City of Philadelphia's budget for the 2017 fiscal year, as outlined in the City's most recent Five Year Financial and Strategic Plan for Fiscal Years 2017-2021.

- *Fund Balance:* In fiscal 2016, the General Fund ended with a fund balance of \$148.3 million.
- *Revenue Projections for FY2017.* Wage and Earnings Tax revenue is projected to grow 3.42%, Sales Tax revenue is projected to grow by 4.34%, Real Property revenue is projected to grow by 3.76%, and Real Estate transfer tax is projected to grow by 5.09%, while the Business Income and Receipts Tax is projected to decline by 2.01%.
- *Wage and Business Tax Cuts.* The current Five Year Plan (FY 2017 to 2021) also includes a continuation of wage and business tax cuts resumed in FY 2014 after being suspended during the Great Recession. The residential rate was 4.3010% in FY2006, is currently 3.9004% in FY2017, and is projected to continue to drop to 3.7276% by FY2021. Regarding the Business Income and Receipts Tax, the FY2017 rate for gross receipts is 0.1415% and the net income rate is 6.35%. By 2021, the net income rate will fall to 6.15%.
- *Philadelphia Beverage Tax.* In June 2016, City Council passed the Philadelphia Beverage Tax (PBT). The Beverage Tax taxes the distribution of sweetened drinks at 1.5 cents per ounce and became effective January 1, 2017. The Beverage Tax is expected to provide funding for pre-kindergarten, community schools, recreation centers and libraries. The City projects to collect approximately \$42.2 million in FY2017, and slightly over \$92 million annually in FY2018 through 2021. In September 2016, a lawsuit challenging the PBT was filed by the American Beverage Association and other co-plaintiffs in the Court of Common Pleas. This complaint was dismissed in its entirety by the Court of Common Pleas in December 2016. Following the decision, the plaintiffs appealed the ruling to the Commonwealth Court of Pennsylvania. The appeal is currently on an expedited scheduling track before the Commonwealth Court and is scheduled for oral argument during the first week of April 2017. Mayor Kenney remains committed to providing affordable, quality pre-K to up to 6,500 children over the next five years, investing in civic assets like parks and libraries over time, and creating 25 community schools over the next four years. However, while the litigation is pending, the City cannot fully implement its plan for these two important initiatives. Until there is certainty that the PBT – and its accompanying revenue stream – will not be invalidated by any legal challenge, the City will proceed with limited expansion of these programs.
- *Contract Negotiations.* More than 80% of City employees are represented by one of the City's municipal unions. The City is committed to working with its union partners to reach agreements that are fair to employees while also maintaining the City's fiscal discipline. The four-year District Council 33 contract ratified in August 2016 includes significant pension reform that is described below in the Pension Reforms paragraph. District Council 33 members received 3% wage increases in July 2016, 2017, and 2019 and a 2.5% increase in 2018. The agreement also provided additional funds for the DC33 health fund to continue providing quality health benefits for employees. Local 810 court employees agreed to a one-year contract that expires in June 2017 and received a 3% wage increase and are now on the same contract cycle as District Council 47. The International Association of Fire Fighters (IAFF) had a wage reopener in FY2017 and received a 3.25% increase, consistent with the increase provided to FOP members during the same period. Contracts for the FOP Lodge 5, IAFF Local 22, and District Council 47 members each expire on June 30, 2017. The FY2017-2021 Five Year Plan includes \$200 million to budget for the potential costs of these labor agreements.
- *Pension Fund Challenges.* The City of Philadelphia's Municipal Retirement System has a \$5.9 billion unfunded liability as of the July 1, 2015 valuation and is only 45% funded. The pension funding ratio has weakened over time, dropping from 77% in FY01 (around peak funding after the FY99 pension bond issuance) to 45% in FY2016. General Fund pension costs make up more than 15% of the City's projected expenditures (including payments on pension obligation bonds) in FY2017.

- *Pension Reforms.* The City and its unions have taken multiple steps to improve the health of the pension fund. Each year, the City has been contributing more than what is legally required, including dedicating sales tax revenue in addition to the minimum municipal obligation (MMO) to improve the funding status of the plan. Over the current FY2017-2021 Five Year Plan, the sales tax revenues are projected to provide an additional \$179 million for the pension fund. As discussed above, the contract ratified in August 2016 by District Council 33, the City's largest municipal union, increases contributions for current employees so that those with higher annual salaries pay a higher contribution rate. These additional contributions will increase the assets of the pension fund over time. The agreement with District Council 33 also created a stacked hybrid plan that is mandatory for new hires. The stacked hybrid plan combines a traditional defined benefit for the first \$50,000 of an employee's earnings and an optional 401k, with an employer match, for earnings above this amount. The stacked hybrid plan provides retirement security for the City's employees while also reducing the pension system's liabilities. The Pension Board has also gradually lowered the assumed rate of return from 8.75% to 7.75% since FY08 and over time has voted to make assumptions around mortality and other demographic factors more conservative. While fiscally prudent, these changes also lower the fund's actuarial funding percentage. The changes are partially responsible for recent increases in the City's minimum municipal obligation.
- *Improving Employee Healthcare Costs:* The City will continue to work with its union partners to help address the rising costs of health insurance and promote wellness. The municipal unions each provide benefits for members through union administered Health and Welfare Funds, and the City has minority representation on those boards. Non-union employees are provided benefits through the City Administered Benefits Program (CAP). In FY10, the City moved from a fully-insured model to a self-insurance arrangement. The City also increased employee copays and instituted a disease management and wellness program with financial incentives for completing wellness activities. In FY2015, the City added a tobacco user surcharge and employees will pay an additional copay for each prescription if using a pharmacy that sells tobacco products.
- *Economic Development:* After decades of population loss, the City has experienced several years of consistent population growth and new investment in its neighborhoods, spurred in part by the relative affordability of housing options and the City's array of cultural amenities. As a hub for education and medicine, the City is home to a number of institutions of higher education, medical and research facilities, and hospitals, and these institutions improve the neighborhoods around them. The City also has a strong business and personal services economy with strengths in insurance, law, finance, and leisure and hospitality. Additionally, the consistent efforts of Philadelphia's economic development agencies as well as private investment have spurred significant economic changes throughout the City. Development in the Navy Yard has, over time, transitioned a formal naval property and active military base to a growing hub for business. The City's hotel room inventory has increased to help meet demand, and investments in commercial corridors across the City have helped existing businesses renovate, attracted new businesses, and helped reduce vacancy rates in those neighborhood commercial areas. As of June 2016, Philadelphia had 48 major projects under construction concurrently, representing almost \$7.3 billion in combined public and private investment.

## Requests for information

The Comprehensive Annual Financial Report is designed to provide a general overview of the City of Philadelphia's finances for all interested parties. The City also publishes the *Supplemental Report of Revenues & Obligations* that provides a detailed look at budgetary activity at the legal level of compliance, the *Annual Report of Bonded Indebtedness* that details outstanding long term debt and the *Schedule of Financial Assistance* that reports on grant activity. All four reports are available on the City's website, [www.phila.gov/finance](http://www.phila.gov/finance). Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to:

Office of the Director of Finance  
Suite 1340 MSB  
1401 John F. Kennedy Boulevard  
Philadelphia, PA 19102



**Basic  
Financial  
Statements**

**City of Philadelphia**  
**Statement of Net Position**  
**June 30, 2016**

**Exhibit I**

*Amounts in thousands of USD*

	Primary Government		Total	Component Units
	Governmental Activities	Business Type Activities		
<b><u>Assets</u></b>				
Cash on Deposit and on Hand	59,265	30	59,295	268,185
Equity in Pooled Cash and Investments	-	-	-	272,564
Equity in Treasurer's Account	752,746	200,379	953,125	-
Investments	102,969	-	102,969	228,324
Due from Component Units	49,515	-	49,515	-
Due from Primary Government	-	-	-	100,878
Amounts Held by Fiscal Agent	54,454	-	54,454	-
Notes Receivable - Net	-	-	-	25,553
Accounts Receivable - Net	377,927	164,623	542,550	281,174
Interest and Dividends Receivable	4,122	-	4,122	20,924
Due from Other Governments - Net	641,724	3,422	645,146	139,135
Inventories	14,163	74,843	89,006	203,114
Other Assets	80,765	126	80,891	77,706
Restricted Assets:				
Cash and Cash Equivalents	-	837,817	837,817	181,818
Other Assets	-	300,678	300,678	137,975
Capital Assets:				
Land and Other Non-Depreciated Assets	873,575	884,423	1,757,998	328,295
Other Capital Assets (Net of Depreciation)	1,500,013	3,336,443	4,836,456	3,105,840
Total Capital Assets, Net	2,373,588	4,220,866	6,594,454	3,434,135
Total Assets	4,511,238	5,802,784	10,314,022	5,371,485
<b><u>Deferred Outflows of Resources</u></b>	878,564	158,661	1,037,225	538,603
<b><u>Liabilities</u></b>				
Notes Payable	80,388	189,900	270,288	80,297
Vouchers Payable	79,903	9,650	89,553	68,292
Accounts Payable	238,855	104,180	343,035	175,744
Salaries and Wages Payable	85,970	9,237	95,207	94,937
Accrued Expenses	44,008	37,154	81,162	254,627
Due to Agency Funds	699	-	699	-
Due to Primary Government	-	-	-	34,427
Due to Component Units	47,405	1,021	48,426	-
Funds Held in Escrow	12,017	1,741	13,758	10,985
Due to Other Governments	2,156	-	2,156	33,286
Unearned Revenue	315,371	31,472	346,843	203,911
Overpayment of Taxes	174,871	-	174,871	18,612
Other Current Liabilities	-	-	-	72,173
Derivative Instrument Liability	84,202	17,547	101,749	664
Long-term Liabilities:				
Due within one year				
Bonds Payable & Other Long-term Liabilities	343,607	187,968	531,575	340,403
Due in more than one year				
Bonds Payable & Other Long-term Liabilities	4,256,513	2,993,675	7,250,188	4,501,739
Net OPEB Liability	296,474	-	296,474	386,355
Net Pension Liability	5,611,853	678,602	6,290,455	3,200,287
Total Liabilities	11,674,292	4,262,147	15,936,439	9,476,739
<b><u>Deferred Inflows of Resources</u></b>	39,689	4,386	44,075	454,307
<b><u>Net Position</u></b>				
Net Investment in Capital Assets	955,217	1,323,668	2,278,885	65,063
Restricted For:				
Capital Projects	108,318	146,299	254,617	5,381
Debt Service	74,018	298,487	372,505	244,793
Pension Oblig Bond Refunding Reserve	44,764	-	44,764	-
Behavioral Health	220,062	-	220,062	-
Neighborhood Revitalization	19	-	19	-
Stadium Financing	558	-	558	-
Central Library Project	1,688	-	1,688	-
Cultural & Commercial Corridor Project	7,444	-	7,444	-
Grant Programs	94,719	-	94,719	27,033
Rate Stabilization	-	205,761	205,761	-
Libraries & Parks:				
Expendable	3,235	-	3,235	-
Non-Expendable	3,137	-	3,137	-
Educational Programs	-	-	-	14,861
Other	67,182	-	67,182	9,809
Unrestricted(Deficit)	(7,904,540)	(279,303)	(8,183,843)	(4,387,898)
Total Net Position	(6,324,179)	1,694,912	(4,629,267)	(4,020,958)

The notes to the financial statements are an integral part of this statement.

City of Philadelphia  
Statement of Activities  
For the Fiscal Year Ended June 30, 2016

Exhibit II

Amounts in thousands of USD

					Net (Expense) Revenue and Changes in Net Position			
Functions	Expenses	Program Revenues			Primary Government			Component Units
		Charges for Services	Operating Grants and Contributions	Capital Grants and Contributions	Governmental Activities	Business Type Activities	Total	
<b>Primary Government:</b>								
Governmental Activities:								
Economic Development	115,315	90	919	446	(113,860)		(113,860)	
Transportation:								
Streets & Highways	136,811	5,847	44,392	49,875	(36,697)		(36,697)	
Mass Transit	76,099	2,172	134	-	(73,793)		(73,793)	
Judiciary and Law Enforcement:								
Police	1,232,416	5,130	9,729	-	(1,217,557)		(1,217,557)	
Prisons	381,642	349	29	-	(381,264)		(381,264)	
Courts	339,596	50,255	47,733	-	(241,608)		(241,608)	
Conservation of Health:								
Emergency Medical Services	66,322	45,679	6,946	-	(13,697)		(13,697)	
Health Services	1,579,052	14,050	1,325,809	-	(239,193)		(239,193)	
Housing and Neighborhood Development								
	80,091	18,114	51,389	-	(10,588)		(10,588)	
Cultural and Recreational:								
Recreation	116,618	4,597	7,359	-	(104,662)		(104,662)	
Parks	8,393	976	-	8,272	855		855	
Libraries and Museums	88,768	1,239	6,712	-	(80,817)		(80,817)	
Improvements to General Welfare:								
Social Services	688,718	1,218	533,798	-	(153,702)		(153,702)	
Education	134,494	-	-	-	(134,494)		(134,494)	
Inspections and Demolitions	65,344	54,064	1,062	-	(10,218)		(10,218)	
Service to Property:								
Sanitation	157,037	16,547	1,887	-	(138,603)		(138,603)	
Fire	370,694	333	1,532	-	(368,829)		(368,829)	
General Management and Support	648,149	158,345	51,432	3,178	(435,194)		(435,194)	
Interest on Long Term Debt	158,168	192	-	-	(157,976)		(157,976)	
Total Governmental Activities	<u>6,443,727</u>	<u>379,197</u>	<u>2,090,862</u>	<u>61,771</u>	<u>(3,911,897)</u>		<u>(3,911,897)</u>	
Business Type Activities:								
Water and Sewer	568,981	669,950	870	1,506	-	103,345	103,345	
Aviation	400,176	433,651	-	24,203	-	57,678	57,678	
Industrial and Commercial Development								
	-	522	-	1,136	-	1,658	1,658	
Total Business Type Activities	<u>969,157</u>	<u>1,104,123</u>	<u>870</u>	<u>26,845</u>	<u>-</u>	<u>162,681</u>	<u>162,681</u>	
Total Primary Government	<u>7,412,884</u>	<u>1,483,320</u>	<u>2,091,732</u>	<u>88,616</u>	<u>(3,911,897)</u>	<u>162,681</u>	<u>(3,749,216)</u>	
<b>Component Units:</b>								
Gas Operations	582,576	580,309	12,321	-				10,054
Housing	72,532	6,556	59,101	-				(6,875)
Parking	239,572	242,855	-	-				3,283
Education	3,096,511	42,567	1,008,976	1,260				(2,043,708)
Health	811,528	-	811,342	-				(186)
Economic Development	194,367	15,475	110,190	65,827				(2,875)
Total Component Units	<u>4,997,086</u>	<u>887,762</u>	<u>2,001,930</u>	<u>67,087</u>				<u>(2,040,307)</u>
General Revenues:								
Taxes:								
Property Taxes					550,226	-	550,226	669,424
Wage & Earnings Taxes					1,816,791	-	1,816,791	-
Business Taxes					505,613	-	505,613	-
Other Taxes					733,490	-	733,490	424,507
Grants & Contributions Not Restricted to Specific Programs					185,444	1,871	187,315	1,137,845
Unrestricted Interest & Investment Earnings					28,031	8,282	36,313	17,569
Miscellaneous					-	-	-	3,356
Special Items					-	-	-	3,757
Transfers					31,622	(31,622)	-	-
Total General Revenues, Special Items and Transfers					<u>3,851,217</u>	<u>(21,469)</u>	<u>3,829,748</u>	<u>2,256,458</u>
Change in Net Position					(60,680)	141,212	80,532	216,151
Net Position - July 1, 2015					(6,263,488)	1,575,748	(4,687,740)	(4,228,463)
Adjustment					(11)	(22,048)	(22,059)	(8,646)
Net Position Adjusted - July 1, 2015					<u>(6,263,499)</u>	<u>1,553,700</u>	<u>(4,709,799)</u>	<u>(4,237,109)</u>
Net Position - June 30, 2016					<u>(6,324,179)</u>	<u>1,694,912</u>	<u>(4,629,267)</u>	<u>(4,020,958)</u>

The notes to the financial statements are an integral part of this statement.

City of Philadelphia  
Balance Sheet  
Governmental Funds  
June 30, 2016

Exhibit III

Amounts in thousands of USD

	General Fund	HealthChoices Behavioral Health Fund	Grants Revenue Fund	Other Governmental Funds	Total Governmental Funds
<b><u>Assets</u></b>					
Cash on Deposit and on Hand	11,580	-	87	38,561	50,228
Equity in Treasurer's Account	400,900	116,113	-	235,733	752,746
Investments	-	-	-	112,004	112,004
Due from Other Funds	52,183	-	-	39	52,222
Due from Component Units	49,515	-	-	-	49,515
Amounts Held by Fiscal Agent	54,454	-	-	-	54,454
Taxes Receivable	592,562	-	-	13,196	605,758
Accounts Receivable	376,322	-	1,463	6,452	384,237
Due from Other Governmental Units	9,280	150,682	398,106	83,656	641,724
Allowance for Doubtful Accounts	(611,171)	-	-	(897)	(612,068)
Interest and Dividends Receivable	615	273	-	16	904
Other Assets	-	-	-	377	377
Total Assets	<u>936,240</u>	<u>267,068</u>	<u>399,656</u>	<u>489,137</u>	<u>2,092,101</u>
<b><u>Liabilities</u></b>					
Vouchers Payable	30,776	870	31,889	16,368	79,903
Accounts Payable	86,080	7,794	112,691	32,255	238,820
Salaries and Wages Payable	79,738	-	5,814	418	85,970
Payroll Taxes Payable	-	-	-	42	42
Due to Other Funds	699	-	41,912	10,310	52,921
Due to Component Units	85	38,342	3,941	5,037	47,405
Funds Held in Escrow	7,983	-	-	4,034	12,017
Due to Other Governmental Units	2,156	-	-	-	2,156
Unearned Revenue	175,152	-	131,372	8,847	315,371
Overpayment of Taxes	174,871	-	-	-	174,871
Total Liabilities	<u>557,540</u>	<u>47,006</u>	<u>327,619</u>	<u>77,311</u>	<u>1,009,476</u>
<b><u>Deferred Inflows of Resources</u></b>	<u>246,232</u>	<u>-</u>	<u>353,701</u>	<u>67,484</u>	<u>667,417</u>
<b><u>Fund Balances</u></b>					
Nonspendable	-	-	-	3,137	3,137
Restricted	54,454	220,062	40,831	341,970	657,317
Committed	-	-	-	4,544	4,544
Assigned	78,014	-	-	-	78,014
Unassigned	-	-	(322,495)	(5,309)	(327,804)
Total Fund Balances	<u>132,468</u>	<u>220,062</u>	<u>(281,664)</u>	<u>344,342</u>	<u>415,208</u>
<b><u>Total Liabilities, Deferred Inflows of Resources, and Fund Balances</u></b>	<u>936,240</u>	<u>267,068</u>	<u>399,656</u>	<u>489,137</u>	

Amounts reported for governmental activities in the statement of net position are different because:

a. Capital Assets used in governmental activities are not reported in the funds	2,373,588
b. Unavailable Revenue are reported as Deferred Inflows of Resources in the funds	665,907
c. Long Term Liabilities, including bonds payable are not reported in the funds	(4,600,120)
d. Derivatives and Deferred Outflows of Resources are not reported in the funds	794,362
e. Other	(26,618)
f. Net Pension & OPEB Liabilities are not reported in the funds	(5,946,506)

Net Position of Governmental Activities (6,324,179)

The notes to the financial statements are an integral part of this statement.



**City of Philadelphia**  
**Statement of Revenues, Expenditures and Changes in Fund Balances**  
**Governmental Funds**  
**For the Fiscal Year Ended June 30, 2016**

**Exhibit IV**

*Amounts in thousands of USD*

	General Fund	HealthChoices Behavioral Health Fund	Grants Revenue Fund	Other Governmental Funds	Total Governmental Funds
<b>Revenues</b>					
Tax Revenue	2,974,729	-	-	657,925	3,632,654
Locally Generated Non-Tax Revenue	291,954	1,209	47,834	26,351	367,348
Revenue from Other Governments	305,643	893,202	912,654	133,694	2,245,193
Other Revenues	16,581	-	-	3,054	19,635
Total Revenues	3,588,907	894,411	960,488	821,024	6,264,830
<b>Expenditures</b>					
Current Operating:					
Economic Development	41,987	-	1,058	58,062	101,107
Transportation:					
Streets & Highways	68,696	-	3,643	32,781	105,120
Mass Transit	75,988	-	134	-	76,122
Judiciary and Law Enforcement:					
Police	1,153,574	-	8,949	-	1,162,523
Prisons	362,407	-	29	2,645	365,081
Courts	293,260	-	36,665	-	329,925
Conservation of Health:					
Emergency Medical Services	57,989	-	6,946	-	64,935
Health Services	167,003	873,936	387,244	144,892	1,573,075
Housing and Neighborhood Development	3,292	-	19,945	56,826	80,063
Cultural and Recreational:					
Recreation	97,445	-	7,350	-	104,795
Parks	-	-	-	1,488	1,488
Libraries and Museums	75,143	-	6,140	116	81,399
Improvements to General Welfare:					
Social Services	147,624	-	539,482	-	687,106
Education	134,494	-	-	-	134,494
Inspections and Demolitions	41,568	-	22,475	-	64,043
Service to Property:					
Sanitation	150,479	-	1,903	-	152,382
Fire	353,436	-	1,532	-	354,968
General Management and Support	614,314	-	18,512	53,578	686,404
Capital Outlay	-	-	-	206,064	206,064
Debt Service:					
Principal	6,655	-	-	132,893	139,548
Interest	11,679	-	-	95,824	107,503
Bond Issuance Cost	991	-	-	2,353	3,344
Total Expenditures	3,858,024	873,936	1,062,007	787,522	6,581,489
Excess (Deficiency) of Revenues Over (Under) Expenditures	(269,117)	20,475	(101,519)	33,502	(316,659)
<b>Other Financing Sources (Uses)</b>					
Issuance of Debt	-	-	-	191,585	191,585
Issuance of Refunding Debt	95,365	-	-	138,795	234,160
Bond Issuance Premium	15,982	-	-	37,897	53,879
Payment to Refunded Bonds Escrow Agent	(103,664)	-	-	(155,916)	(259,580)
Transfers In	409,106	-	-	277,178	686,284
Transfers Out	(170,699)	-	(31,881)	(452,082)	(654,662)
Total Other Financing Sources (Uses)	246,090	-	(31,881)	37,457	251,666
Net Change in Fund Balance	(23,027)	20,475	(133,400)	70,959	(64,993)
Fund Balance - July 1, 2015	155,495	199,587	(148,264)	273,394	480,212
Adjustment	-	-	-	(11)	(11)
Fund Balance Adjusted - July 1, 2015	155,495	199,587	(148,264)	273,383	480,201
Fund Balance - June 30, 2016	132,468	220,062	(281,664)	344,342	415,208

The notes to the financial statements are an integral part of this statement.

**City of Philadelphia**  
**Reconciliation of the Statement of Revenues, Expenditures and**  
**Changes in Fund Balances of Governmental Funds to the Statement of Activities**  
**For the Fiscal Year Ended June 30, 2016**

**Exhibit V**

*Amounts in thousands of USD*

**Net Change in Fund Balances - Total Governmental Funds.....** (64,993)

**Amounts reported for governmental activities in the statement of activities are different because:**

- a. Governmental funds report capital outlays as expenditures. However, in the statement of activities the cost of those assets is allocated over their estimated useful lives and reported as depreciation expense. This is the amount by which capital outlay (\$192,409) exceeded depreciation (\$143,287) in the current period..... 49,122
- b. Revenues in the statement of activities that do not provide current financial resources are not reported as revenues in the funds..... 87,437
- c. Proceeds from debt obligations provide current financial resources to governmental funds, but issuing debt increases long-term liabilities in the statement of net position. Repayment of principal is an expenditure in the governmental funds, but the repayment reduces long-term liabilities in the statement of net position. This is the amount by which repayments (\$546,490) exceeded proceeds (\$479,624)..... 66,866
- d. The increase in the Net Pension Liability reported in the statement of activities does not require the use of current financial resources and therefore is not reported as an expenditure in governmental funds..... (104,589)
- e. Some expenses reported in the statement of activities do not require the use of current financial resources and therefore are not reported as expenditures in governmental funds..... (94,523)

**Change in Net Position of governmental activities.....** (60,680)

The notes to the financial statements are an integral part of this statement.

City of Philadelphia  
Statement of Fund Net Position  
Proprietary Funds  
June 30, 2016

Exhibit VI

Amounts in thousands of USD

Business Type Activities - Enterprise Funds				
	Water and Sewer	Aviation	Other Non-Major Industrial & Commercial Development	Total
<b>Assets</b>				
Current Assets:				
Cash on Deposit and on Hand	30	-	-	30
Equity in Treasurer's Account	79,044	116,254	5,081	200,379
Due from Other Governments	125	1,325	1,972	3,422
Accounts Receivable	152,588	26,216	6	178,810
Allowance for Doubtful Accounts	(13,007)	(1,180)	-	(14,187)
Inventories	14,915	3,396	56,532	74,843
Other Assets	126	-	-	126
Total Current Assets	233,821	146,011	63,591	443,423
Non-Current Assets:				
Restricted Assets:				
Equity in Treasurer's Account	550,746	287,071	-	837,817
Sinking Funds and Reserves	220,890	47,869	-	268,759
Grants for Capital Purposes	-	21,807	-	21,807
Receivables	740	9,372	-	10,112
Total Restricted Assets	772,376	366,119	-	1,138,495
Capital Assets:				
Land	5,919	150,124	-	156,043
Infrastructure	2,466,451	1,028,188	-	3,494,639
Construction in Progress	296,254	432,126	-	728,380
Buildings and Equipment	1,768,387	2,112,276	-	3,880,663
Less: Accumulated Depreciation	(2,306,778)	(1,732,081)	-	(4,038,859)
Total Capital Assets, Net	2,230,233	1,990,633	-	4,220,866
Total Non-Current Assets	3,002,609	2,356,752	-	5,359,361
Total Assets	3,236,430	2,502,763	63,591	5,802,784
<b>Deferred Outflows of Resources</b>				
	108,809	49,852	-	158,661
<b>Liabilities</b>				
Current Liabilities:				
Vouchers Payable	6,635	3,015	-	9,650
Accounts Payable	11,939	10,930	-	22,869
Salaries and Wages Payable	6,598	2,639	-	9,237
Construction Contracts Payable	42,880	38,431	-	81,311
Due to Component Units	1,021	-	-	1,021
Accrued Expenses	33,215	3,939	-	37,154
Funds Held in Escrow	1,741	-	-	1,741
Unearned Revenue	9,785	21,687	-	31,472
Commercial Paper Notes	-	189,900	-	189,900
Bonds Payable-Current	124,728	63,240	-	187,968
Total Current Liabilities	238,542	333,781	-	572,323
Derivative Instrument Liability	1,508	16,039	-	17,547
Net OPEB Liability	-	-	-	-
Net Pension Liability	455,841	222,761	-	678,602
Non-Current Liabilities:				
Bonds Payable	1,842,386	1,097,664	-	2,940,050
Other Non-Current Liabilities	38,995	14,630	-	53,625
Total Non-Current Liabilities	1,881,381	1,112,294	-	2,993,675
Total Liabilities	2,577,272	1,684,875	-	4,262,147
<b>Deferred Inflows of Resources</b>				
	2,863	1,523	-	4,386
<b>Net Position</b>				
Net Investment in Capital Assets	523,367	800,301	-	1,323,668
Restricted For:				
Capital Projects	73,266	73,033	-	146,299
Debt Service	220,889	77,598	-	298,487
Rate Stabilization	205,761	-	-	205,761
Unrestricted	(258,179)	(84,715)	63,591	(279,303)
Total Net Position	765,104	866,217	63,591	1,694,912

The notes to the financial statements are an integral part of this statement.

**City of Philadelphia**  
**Statement of Revenues, Expenses and Changes in Fund Net Position**  
**Proprietary Funds**  
**For the Fiscal Year Ended June 30, 2016**

**Exhibit VII**

*Amounts in thousands of USD*

	Business-Type Activities - Enterprise Funds			
	Water and Sewer	Aviation	Other Non-Major Industrial & Commercial Development	Totals
Operating Revenues:				
Charges for Goods and Services	659,583	110,787	-	770,370
Rentals and Concessions	-	225,000	-	225,000
Operating Grants	870	-	-	870
Miscellaneous Operating Revenues	10,367	5,009	522	15,898
<b>Total Operating Revenues</b>	<b>670,820</b>	<b>340,796</b>	<b>522</b>	<b>1,012,138</b>
Operating Expenses:				
Personal Services	122,873	69,283	-	192,156
Purchase of Services	97,409	108,419	-	205,828
Materials and Supplies	36,376	6,945	-	43,321
Employee Benefits	117,394	57,855	-	175,249
Indemnities and Taxes	8,220	1,695	-	9,915
Depreciation	101,711	101,909	-	203,620
<b>Total Operating Expenses</b>	<b>483,983</b>	<b>346,106</b>	<b>-</b>	<b>830,089</b>
<b>Operating Income (Loss)</b>	<b>186,837</b>	<b>(5,310)</b>	<b>522</b>	<b>182,049</b>
Non-Operating Revenues (Expenses):				
Federal, State and Local Grants	250	1,621	-	1,871
Passenger and Customer Facility Charges	-	92,855	-	92,855
Interest Income	5,600	2,658	24	8,282
Debt Service - Interest	(82,659)	(54,003)	-	(136,662)
Other Revenue (Expenses)	(2,339)	(67)	-	(2,406)
<b>Total Non-Operating Revenues (Expenses)</b>	<b>(79,148)</b>	<b>43,064</b>	<b>24</b>	<b>(36,060)</b>
Income (Loss) Before Contributions & Transfers	107,689	37,754	546	145,989
Transfers In/(Out)	(31,622)	-	-	(31,622)
Capital Contributions	1,506	24,203	1,136	26,845
<b>Change in Net Position</b>	<b>77,573</b>	<b>61,957</b>	<b>1,682</b>	<b>141,212</b>
Net Position - July 1, 2015	709,579	804,260	61,909	1,575,748
Adjustment	(22,048)	-	-	(22,048)
<b>Net Position Adjusted - July 1, 2015</b>	<b>687,531</b>	<b>804,260</b>	<b>61,909</b>	<b>1,553,700</b>
<b>Net Position - June 30, 2016</b>	<b>765,104</b>	<b>866,217</b>	<b>63,591</b>	<b>1,694,912</b>

The notes to the financial statements are an integral part of this statement.

City of Philadelphia  
Statement of Cash Flows  
Proprietary Funds  
For the Fiscal Year Ended June 30, 2016

Exhibit VIII

Amounts in thousands of USD

	Business Type Activities - Enterprise Funds			
	Water and Sewer	Aviation	Other Non-Major Industrial & Commercial Development	Totals
<b>CASH FLOWS FROM OPERATING ACTIVITIES</b>				
Receipts from Customers	677,061	366,334	-	1,043,395
Payments to Suppliers	(143,758)	(112,151)	-	(255,909)
Payments to Employees	(230,376)	(121,821)	-	(352,197)
Internal Activity-Payments to Other Funds	-	(7,039)	-	(7,039)
Claims Paid	(5,441)	-	-	(5,441)
Other Receipts (Payments)	-	1,040	522	1,562
Net Cash Provided (Used)	297,486	126,363	522	424,371
<b>CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES</b>				
Operating Grants Received	1,120	1,765	-	2,885
Operating Subsidies and Transfers from Other Funds	(31,622)	-	-	(31,622)
Net Cash Provided (Used)	(30,502)	1,765	-	(28,737)
<b>CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES</b>				
Proceeds from Debt Issuance	5,823	668,900	-	674,723
Capital Grants & Contributions Received	-	25,097	-	25,097
Acquisition and Construction of Capital Assets	(175,797)	(151,396)	-	(327,193)
Interest Paid on Debt Instruments	(82,250)	(52,910)	-	(135,160)
Principal Paid on Debt Instruments	(136,712)	(715,810)	-	(852,522)
Passenger Facility Charges	-	93,931	-	93,931
Other Receipts (Payments)	33	-	-	33
Net Cash Provided (Used)	(388,903)	(132,188)	-	(521,091)
<b>CASH FLOWS FROM INVESTING ACTIVITIES</b>				
Proceeds from Sale and Maturities of Investments	-	4,232	-	4,232
Interest and Dividends on Investments	3,626	1,012	19	4,657
Net Cash Provided (Used)	3,626	5,244	19	8,889
Net Increase (Decrease) in Cash and Cash Equivalents	(118,293)	1,184	541	(116,568)
Cash and Cash Equivalents, July 1 (including \$668.1 mil for Water & Sewer and \$336.1 mil for Aviation reported in restricted accounts)	748,113	402,141	4,540	1,154,794
Cash and Cash Equivalents, June 30 (including \$550.7 mil for Water & Sewer and \$287.1 mil for Aviation reported in restricted accounts)	629,820	403,325	5,081	1,038,226
<b>Reconciliation of Operating Income (Loss) to Net Cash Provided (Used) by Operating Activities:</b>				
Operating Income (Loss)	186,837	(5,310)	522	182,049
Adjustments to Reconcile Operating Income to Net Cash Provided (Used) by Operating Activities:				
Depreciation Expense	101,711	101,909	-	203,620
Bad Debts, Net of Recoveries	-	-	-	-
Changes in Assets and Liabilities:				
Receivables, Net	4,220	6,503	-	10,723
Unearned Revenue	880	20,095	-	20,975
Inventories	(1,593)	(359)	-	(1,952)
Accounts and Other Payables	2,265	3,525	-	5,790
Accrued Expenses	3,166	-	-	3,166
Net Cash Provided by Operating Activities	297,486	126,363	522	424,371
<b>Schedule of non-cash capital activities:</b>				
Contributions of capital assets	-	-	1,135	1,135

The notes to the financial statements are an integral part of this statement.

**City of Philadelphia**  
**Statement of Net Position**  
**Fiduciary Funds**  
**June 30, 2016**

**Exhibit IX**

*Amounts in thousands of USD*

	Pension Trust <u>Funds</u>	Agency <u>Funds</u>
<b><u>Assets</u></b>		
Cash on Deposit and on Hand	16,987	108,456
Equity in Treasurer's Account	4,839,674	50,571
Investments	-	2,352
Securities Lending Collective Investment Pool	330,983	-
Allowance for Unrealized Loss	(315)	-
Accounts Receivable	39,062	-
Due from Brokers for Securities Sold	97,584	-
Interest and Dividends Receivable	1,084	-
Due from Other Governmental Units	9,199	-
Due from Other Funds	-	699
	<hr/>	<hr/>
Total Assets	5,334,258	162,078
	<hr/>	<hr/>
<b><u>Liabilities</u></b>		
Vouchers Payable	30	139
Accounts Payable	429	-
Salaries and Wages Payable	110	-
Payroll Taxes Payable	-	5,384
Funds Held in Escrow	-	156,555
Due on Return of Securities Loaned	330,983	-
Due to Brokers for Securities Purchased	152,922	-
Accrued Expenses	3,691	-
Other Liabilities	4,859	-
	<hr/>	<hr/>
Total Liabilities	493,024	162,078
	<hr/>	<hr/>
Net Position Held in Trust for Pension Benefits	4,841,234	-
	<hr/>	<hr/>

The notes to the financial statements are an integral part of this statement.

**City of Philadelphia**  
**Statement of Changes in Net Position**  
**Fiduciary Funds**  
**For the Fiscal Year Ended June 30, 2016**

**Exhibit X**

*Amounts in thousands of USD*

	Pension Trust Funds
<b><u>Additions:</u></b>	
Contributions:	
Employers' Contributions	681,369
Employees' Contributions	<u>67,657</u>
Total Contributions	<u>749,026</u>
Investment Income:	
Interest and Dividends	113,146
Net Decline in Fair Value of Investments	(239,840)
(Less) Investments Expenses	(11,051)
Securities Lending Revenue	1,921
Securities Lending Unrealized Gain	(11,042)
(Less) Securities Lending Expenses	<u>(313)</u>
Net Investment Loss	<u>(147,180)</u>
Miscellaneous Operating Revenues	4,370
Total Additions	<u>606,216</u>
<b><u>Deductions</u></b>	
Personal Services	3,079
Purchase of Services	2,491
Materials and Supplies	44
Employee Benefits	2,861
Pension Benefits	932,438
Refunds of Members' Contributions	7,351
Administrative Expenses Paid	1,610
Other Operating Expenses	<u>78</u>
Total Deductions	<u>949,953</u>
Change in Net Position	(343,737)
Net Position - July 1, 2015	<u>5,184,971</u>
Net Position - June 30, 2016	<u><u>4,841,234</u></u>

The notes to the financial statements are an integral part of this statement.

City of Philadelphia  
Statement of Net Position  
Component Units  
June 30, 2016

Exhibit XI

Amounts in thousands of USD

	Philadelphia Gas Works*	Philadelphia Redevelopment Authority	Philadelphia Parking Authority*	School District of Philadelphia	Community College of Philadelphia	Community Behavioral Health*	Delaware River Waterfront Corporation	Philadelphia Authority for Industrial Development*	Total
<b>Assets</b>									
Cash on Deposit and on Hand	91,743	51,249	48,018	3	13,434	10,658	7,752	45,328	268,185
Equity in Pooled Cash and Investments	-	-	-	272,564	-	-	-	-	272,564
Investments	-	17,387	26,079	142,850	40,719	-	1,289	-	228,324
Due from Primary Government	-	11,057	-	-	-	74,984	-	14,837	100,878
Notes Receivable	-	25,553	-	-	-	-	-	-	25,553
Taxes Receivable	73,563	-	-	174,236	-	-	-	-	247,799
Accounts Receivable-Net	-	1,661	403	20,251	6,205	873	2,206	1,776	33,375
Interest and Dividends Receivable	-	19,856	182	850	36	-	-	-	20,924
Due from Other Governments	-	162	-	112,559	1,408	-	-	25,006	139,135
Inventories	47,891	153,354	-	1,869	-	-	-	-	203,114
Other Assets	66,318	4,770	96	5,948	-	384	190	-	77,706
Restricted Assets:									
Cash and Cash Equivalents	-	8,183	120,078	26,166	-	-	-	27,391	181,818
Other Assets	89,255	15,808	-	13,257	1,586	-	-	18,069	137,975
Capital Assets:									
Land and Other Non-Depreciated Assets	79,125	170	15,844	188,442	31,861	-	1,850	11,003	328,295
Other Capital Assets (Net of Depreciation)	1,205,684	170	164,604	1,517,539	134,682	10,459	7,620	65,082	3,105,840
Total Capital Assets	1,284,809	340	180,448	1,705,981	166,543	10,459	9,470	76,085	3,434,135
Total Assets	1,653,579	309,380	375,304	2,476,534	229,931	97,358	20,907	208,492	5,371,485
<b>Deferred Outflows of Resources</b>	159,981	5,700	30,287	334,248	8,020	-	367	-	538,603
<b>Liabilities</b>									
Notes Payable	71,000	7,197	2,100	-	-	-	-	-	80,297
Vouchers Payable	55,870	-	-	-	12,422	-	-	-	68,292
Accounts Payable	-	11,780	22,180	121,938	-	5,052	996	13,798	175,744
Salaries and Wages Payable	3,609	-	-	84,952	3,478	2,898	-	-	94,937
Accrued Expenses	164,645	13,407	592	-	1,160	74,221	602	-	254,627
Funds Held in Escrow	-	9,627	-	-	546	-	-	812	10,985
Due to Other Governments	-	-	11,949	9,116	61	-	-	12,160	33,286
Due to Primary Government	-	1,500	32,927	-	-	-	-	-	34,427
Unearned Revenue	7,881	27,188	-	62,183	2,997	2,883	9,506	91,273	203,911
Overpayment of Taxes	-	-	-	18,612	-	-	-	-	18,612
Other Current Liabilities	-	-	-	63,873	-	8,300	-	-	72,173
Derivative Instrument Liability	-	-	-	664	-	-	-	-	664
Net OPEB Liability	296,093	1,758	12,617	-	70,428	4,004	1,455	-	386,355
Net Pension Liability	-	16,133	145,554	3,038,600	-	-	-	-	3,200,287
Non-Current Liabilities:									
Due within one year	34,790	5,266	13,170	279,908	7,269	-	-	-	340,403
Due in more than one year	891,634	39,858	157,928	3,317,877	67,609	-	2,020	24,813	4,501,739
Total Liabilities	1,525,522	133,714	399,017	6,997,723	165,970	97,358	14,579	142,856	9,476,739
<b>Deferred Inflows of Resources</b>	-	1,057	934	452,132	184	-	-	-	454,307
<b>Net Position</b>									
Net Investment in Capital Assets	415,561	170	82,384	(582,931)	98,776	-	9,470	41,633	65,063
Restricted For:									
Capital Projects	-	-	-	-	5,381	-	-	-	5,381
Debt Service	89,255	10,996	2,493	142,049	-	-	-	-	244,793
Educational Programs	-	-	-	6,315	8,546	-	-	-	14,861
Grant Programs	-	-	-	-	-	-	-	27,033	27,033
Other	-	-	-	9,809	-	-	-	-	9,809
Unrestricted	(216,778)	169,143	(79,237)	(4,214,315)	(40,906)	-	(2,775)	(3,030)	(4,387,898)
Total Net Position	288,038	180,309	5,640	(4,639,073)	71,797	-	6,695	65,636	(4,020,958)

\* The Philadelphia Gas Works is presented as of the close of their fiscal year, August 31, 2016. Community Behavioral Health and the Philadelphia Authority for Industrial Development are presented as of the close of their fiscal year, December 31, 2015. The Philadelphia Parking Authority is presented as of the close of their fiscal year, March 31, 2016.

The notes to the financial statements are an integral part of this statement.



City of Philadelphia  
Statement of Activities  
Component Units  
For the Fiscal Year Ended June 30, 2016

Exhibit XII

Amounts in thousands of USD

					Net (Expense) Revenue and Changes in Net Position									
	Program Revenues							School District of Philadelphia	Community College of Philadelphia	Community Behavioral Health*	Delaware River Waterfront Corporation	Philadelphia Authority for Industrial Development*		
Functions	Expenses	Charges for Services	Operating Grants and Contributions	Capital Grants and Contributions	Philadelphia Gas Works*	Philadelphia Redevelopment Authority	Philadelphia Parking Authority*						Total	
Gas Operations														
Gas Works	582,576	580,309	12,321	-	10,054								10,054	
Housing														
Redevelopment Authority	72,532	6,556	59,101	-		(6,875)							(6,875)	
Parking														
Parking Authority	239,572	242,855	-	-			3,283						3,283	
Education														
School District	2,923,321	9,184	944,149	1,260				(1,968,728)					(1,968,728)	
Community College	173,190	33,383	64,827	-					(74,980)				(74,980)	
Total	3,096,511	42,567	1,008,976	1,260										
Health														
Community Behavioral Health	811,528	-	811,342	-						(186)			(186)	
Economic Development														
	-	-	-	-									-	
Delaware River Waterfront Corp.	22,108	12,251	9,355	-							(502)		(502)	
Authority for Ind. Development	172,259	3,224	100,835	65,827								(2,373)	(2,373)	
Total	194,367	15,475	110,190	65,827										
Total Component Units	4,997,086	887,762	2,001,930	67,087									(2,040,307)	
General Revenues:														
Property Taxes					-	-	-	669,424	-	-	-	-	669,424	
Other Taxes					-	-	-	424,507	-	-	-	-	424,507	
Grants & Contributions Not Restricted to Specific Programs					-	-	-	1,072,091	65,754	-	-	-	1,137,845	
Unrestricted Interest & Investment Earnings					-	3,932	3,824	8,725	838	186	34	30	17,569	
Miscellaneous					-	-	-	-	3,356	-	-	-	3,356	
Special Item-Gain (Loss) on Sale of Capital Assets					-	-	-	2,064	-	-	-	1,693	3,757	
Total General Revenue ,Special Items and Transfers					-	3,932	3,824	2,176,811	69,948	186	34	1,723	2,256,458	
Change in Net Position					10,054	(2,943)	7,107	208,083	(5,032)	-	(468)	(650)	216,151	
Net Position - July 1, 2015					277,984	72,550	118,072	(4,847,238)	76,720	-	7,163	66,286	(4,228,463)	
Adjustment					-	110,702	(119,539)	82	109	-	-	-	(8,646)	
Net Position Adjusted - July 1, 2015					277,984	183,252	(1,467)	(4,847,156)	76,829	-	7,163	66,286	(4,237,109)	
Net Position - June 30, 2016					288,038	180,309	5,640	(4,639,073)	71,797	-	6,695	65,636	(4,020,958)	

\* The Philadelphia Gas Works is presented as of the close of their fiscal year, August 31, 2016. Community Behavioral Health and the Philadelphia Authority for Industrial Development are presented as of the close of their fiscal year, December 31, 2015. The Philadelphia Parking Authority is presented as of the close of their fiscal year, March 31, 2016.

The notes to the financial statements are an integral part of this statement.



**Notes to the Financial Statements**  
**FYE 06/30/2016**

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## **I. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

The financial statements of the City of Philadelphia have been prepared in conformity with generally accepted accounting principles (GAAP) as applied to governmental units. The Governmental Accounting Standards Board (GASB) is the accepted standard setting body for establishing governmental accounting and financial reporting principles. The more significant of the City's accounting policies are described below.

### **1. REPORTING ENTITY**

The City of Philadelphia was founded in 1682 and was merged with the county in 1854. Since 1951 the City has been governed largely under the Philadelphia Home Rule Charter. However, in some matters, including the issuance of short-term and long-term debt, the City is governed by the laws of the Commonwealth of Pennsylvania.

As required by GAAP, the financial statements of the City of Philadelphia include those of the primary government and its component units. The component units discussed below are included in the City's reporting entity because of the significance of their operational or financial relationships with the City. The financial statements of these component units have been included in the City's reporting entity either as blended component units or as discretely presented component units. The criteria to determine an entity as a component unit is established by Governmental Accounting Standards Board Statement (GASBS) No. 14 which has been amended by GASB Statements No. 39 and No. 61. Certain other organizations also did meet the criteria for inclusion, however they are not included in the City's financial statements because they are not significant to a fair representation of the City's reporting entity. **Individual financial statements can be obtained directly from their administrative offices by writing to the addresses provided.**

As used both on the face of the financial statements and in the footnotes, the term "Primary Government" includes both City funds and Blended Component Units while the term "Component Units" includes only Discretely Presented Component Units. A Related Organization is an entity which the City appoints board members but for which the city has no significant financial responsibility.

#### **A. BLENDED COMPONENT UNITS**

##### **Pennsylvania Intergovernmental Cooperation Authority (PICA) – 1500 Walnut St., Philadelphia, PA 19102**

PICA was established by act of the Commonwealth of Pennsylvania to provide financial assistance to cities of the first class and is governed by a five-member board appointed by the Commonwealth. Currently, the City of Philadelphia is the only city of the first class. The activities of PICA are reflected in two of the governmental fund types (Special Revenue and Debt Service).

##### **Philadelphia Municipal Authority (PMA) – 1515 Arch St., Philadelphia, PA 19102**

PMA is governed by a five-member board appointed by the City and was established to issue tax exempt bonds for the acquisition and use of certain equipment and facilities for the City. The activities of PMA are reflected in three of the governmental fund types (Special Revenue, Debt Service and Capital Improvement).

#### **B. DISCRETELY PRESENTED COMPONENT UNITS**

The component unit columns in the applicable combined financial statements include the combined financial data for the organizations discussed below. They are reported in a separate column to emphasize that they are legally separate from the City. However, in order to retain their identity, applicable combining statements have been included as part of this report.

##### **Community College of Philadelphia (CCP) – 1700 Spring Garden St., Philadelphia, PA 19130**

CCP was established by the City to provide two-year post-secondary education programs for its residents. It is governed by a Board appointed by the City, receives substantial subsidies from the City, and its budgets must be submitted to the City for review and approval. CCP's reported amounts include the financial activity of the Community College of Philadelphia Foundation, which is a discretely presented component unit of CCP.

##### **Delaware River Waterfront Corp. (DRWC) – 121 N. Columbus Blvd., Philadelphia, PA 19106**

The 16-member board is headed by the Mayors' Deputy Director for Economic Development and Planning, and is comprised of appointed City officials and private sector experts in design, finance, and real estate development. The group will focus on the development of the seven-mile stretch of water front property be-

tween Allegheny and Oregon Avenues. As stated in **DWRC's** Articles of Incorporation, **DWRC** is organized exclusively for the benefit of the City of Philadelphia, therefore, the significance of the City's relationship with **DWRC** is such that exclusion from the City's financial report would be misleading.

**Philadelphia Parking Authority (PPA) – 3101 Market St., Philadelphia, PA 19104**

PPA was established by the City to coordinate a system of parking facilities and on-street parking on behalf of the City. Its fiscal year ends on March 31. The City has guaranteed debt payments for PPA. A voting majority of PPA's governing board is not appointed by the City, however the significance of the City's relationship with PPA is such that exclusion from the City's financial report would be misleading.

**Philadelphia Redevelopment Authority (PRA) – 1234 Market St., Philadelphia, PA 19107**

PRA was established to rehabilitate blighted sections of the City. It is governed by a five-member board appointed by the City and must submit its budgets to the City for review and approval. PRA's reported amounts include the financial activity of the Head House Retail Associates, L.P., which is PRA's discretely presented component unit whose fiscal year ended December 31, 2015.

**School District of Philadelphia (SDP) – 440 N. Broad St., Philadelphia, PA 19130**

SDP was established by the Educational Supplement to the Philadelphia Home Rule Charter to provide free public education for the City's residents. A voting majority of the SDP governing board is not appointed by the City, however, the significance of the City's relationship with SDP is such that exclusion from the City's financial report would be misleading.

**Community Behavioral Health (CBH) – 801 Market St., Philadelphia, PA 19107**

CBH is a not-for-profit organization established by the City's Department of Public Health to provide for and administer all behavioral health services required by the Commonwealth of Pennsylvania. Its board is made up of City officials and City appointees. Any change in funding would present a financial burden to the City.

**Philadelphia Authority for Industrial Development (PAID) – 2600 Centre Sq. West, Philadelphia, PA 19102**

PAID was formed under the Industrial Development Authority Law to issue debt to finance eligible industrial and commercial development projects. PAID is the delegate agency responsible for administration of certain state grants and acts in the City's behalf on major development projects in the City. The City appoints a voting majority of PAID's board and is responsible for the debt service that PAID issues on the City's behalf.

**Philadelphia Gas Works (PGW) – 800 W. Montgomery Ave., Philadelphia, PA 19122**

PGW was established by the City to provide gas service to residential and commercial customers within the City of Philadelphia. The City appoints a voting majority of PGW's board and has the ability to modify or approve their budget.

**C. RELATED ORGANIZATIONS**

**Philadelphia Housing Authority (PHA) – 12 South 23RD Street, Philadelphia, PA 19103**

PHA was established to provide low cost housing and other social services to the residents of the City. It is governed by a nine-member board with all members appointed by the City. PHA provides significant services to the City's residents.

**2. GOVERNMENT-WIDE AND FUND FINANCIAL STATEMENTS**

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The City's *government wide* financial statements (i.e. the Statement of Net Position and the Statement of Activities) report information on all of the non-fiduciary activities of the primary government and its component units. *Governmental activities* which are normally supported by taxes and intergovernmental revenues are reported separately from *business type activities*, which rely to a significant extent on fees and charges for support. Likewise, the *primary government* is reported separately from certain legally separate *component units* for which the primary government is financially accountable. Interfund activity and balances have been eliminated from the statements to avoid duplication.

The Statement of Activities demonstrates the degree to which the direct expenses of a given program are offset by program revenues. *Direct expenses* are those that are clearly identifiable with a specific program. *Program revenues* include: (1) charges to customers or applicants who purchase, use or directly benefit from services or privileges provided by a given program and (2) grants and contributions that are restricted to meeting operational or capital requirements of a particular program. Taxes and other items not properly included among program revenues are reported instead as general revenues.

Separate *fund* financial statements are provided for governmental funds, proprietary funds, and fiduciary funds, even though the latter are excluded from the *government wide* financial statements. Major individual governmental funds and major individual enterprise funds are reported as separate columns in the *fund* financial statements.

### 3. BASIS OF ACCOUNTING, MEASUREMENT FOCUS AND FINANCIAL STATEMENTS

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#### A. PRIMARY GOVERNMENT

The government wide financial statements are reported using the economic resources measurement focus and the accrual basis of accounting, as are the proprietary fund and fiduciary fund (except agency funds which only report assets and liabilities and cannot be said to have a measurement focus) financial statements. Revenues are recorded when earned and expenses are recorded when a liability is incurred regardless of the timing of related cash flows. Real estate taxes are recognized as revenues in the year for which they are levied. Derived tax revenues such as wage, business income and receipts, and net profits and earnings taxes are recognized when the underlying exchange transaction has taken place. Grant and similar items are recognized as revenue as soon as all eligibility requirements imposed by the provider have been met.

Governmental fund financial statements are reported using the current financial resources measurement focus and the modified accrual basis of accounting. Revenues are recognized as soon as they are both measurable and available. Revenues are considered to be available when they are collectible within the current period or soon enough thereafter to pay liabilities of the current period. For this purpose, the City considers revenues to be available if they are collected within 60 days of the end of the current fiscal period. Expenditures are generally recorded when a liability is incurred as under accrual accounting. Debt service expenditures, as well as expenditures related to compensated absences and claims and judgments, are recorded only when payment is due. However, those expenditures may be accrued if they are to be liquidated with available resources.

Imposed non-exchange revenues such as real estate taxes are recognized when the enforceable legal claim arises and the resources are available. Derived tax revenues, such as wage, business income and receipts tax, net profits and earnings taxes, are recognized when the underlying exchange transaction has occurred and the resources are available. Grant revenues are recognized when all the applicable eligibility requirements have been met and the resources are available. All other revenue items are considered to be measurable and available only when cash is received by the City.

As a general rule, the effect of interfund activity has been eliminated from the government wide financial statements. Exceptions to this general rule are charges between the City's water and sewer function and various other programs of the City. Elimination of these charges would distort the direct costs and program revenues reported for the various programs concerned.

When both restricted and unrestricted resources are available for use, it is the City's policy to use restricted resources first, then unrestricted resources as they are needed.

Amounts reported as program revenue include: (1) charges to customers or applicants for goods received, services rendered or privileges provided, (2) operating grants and contributions, and (3) capital grants and contributions. Internally dedicated resources are reported as general revenues rather than as program specific revenues. Accordingly, general revenues include all taxes.

*The City reports the following major governmental funds:*

- The General Fund is the City's primary operating fund. It accounts for all financial resources of the general government, except those required to be accounted for in other funds.
- The Health Choices Behavioral Health Fund accounts for resources received from the Commonwealth of Pennsylvania. These resources are restricted to providing managed behavioral health care to Philadelphia residents.
- The Grants Revenue Fund accounts for the resources received from various federal, state and private grantor agencies. The resources are restricted to accomplishing the various objectives of the grantor agencies.

Additionally, the City reports on Permanent funds, which are used to account for resources legally held in trust for use by the park and library systems of the City. There are legal restrictions on the resources of the funds that hold that the principal remains intact and only the earnings are allowed to be used for the program.

*The City reports on the following fiduciary funds:*

- The Municipal Pension Fund accumulates resources to provide pension benefit payments to qualified employees of the City and certain other quasi-governmental organizations.

- The Philadelphia Gas Works Retirement Reserve Fund accumulates resources to provide pension benefit payments to qualified employees of the Philadelphia Gas Works.
- The Escrow Fund accounts for funds held in escrow for various purposes.
- The Employees Health & Welfare Fund accounts for funds deducted from employees' salaries for payment to various organizations.
- The Departmental Custodial Accounts account for funds held in custody by various City Departments.

*The City reports the following major proprietary funds:*

- The Water Fund accounts for the activities related to the operation of the City's water delivery and sewage systems.
- The Aviation Fund accounts for the activities of the City's airports.

Proprietary funds distinguish operating revenues and expenses from non-operating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund's ongoing operations. The principal operating revenues of the Water Fund are charges for water and sewer service. The principal operating revenue of the Aviation fund is charges for the use of the airport. Operating expenses for enterprise funds include the cost of sales and services, administrative expenses, and depreciation on capital assets. All revenues and expenses not meeting this definition are reported as non-operating revenues and expenses.

#### B. COMPONENT UNITS

The **SDP** prepares their financial statements in a manner similar to the City and utilizes the full range of governmental and proprietary fund types.

The financial statements of the **CCP** have been prepared in accordance with GASBS No. 35 - Basic Financial Statements - and Management's Discussion and Analysis - For Public Colleges and Universities. The remaining component units prepare their financial statements in a manner similar to that of proprietary funds.

### 4. DEPOSITS AND INVESTMENTS

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The City utilizes a pooled Cash and Investments Account to provide efficient management of the cash of most City funds. In addition, separate cash accounts are maintained by various funds due to either legal requirements or operational needs. For Proprietary and Permanent Funds, all highly liquid investments (except for Repurchase Agreements) with a maturity of three months or less when purchased are considered to be cash equivalents.

The City reports investments at fair value. Short-term investments are reported at cost which approximates fair value. Securities traded on national or international exchanges are valued at the last reported sales price. The fair value of real estate investments is based on independent appraisals. Investments which do not have an established market are reported at estimated fair value.

Statutes authorize the City to invest in obligations of the Treasury, agencies, and instruments of the United States, repurchase agreements, collateralized certificates of deposit, bank acceptance or mortgage obligations, certain corporate bonds, and money market funds. The Pension Trust Fund is also authorized to invest in corporate bonds rated AA or better by Moody's Bond Ratings, common stocks and real estate.

From February to early June, deposits of the City significantly exceeded the amounts reported at calendar year end. This was due to cyclical tax collections (billings for taxes are mailed in December and payable in March).

### 5. INVENTORIES

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#### A. PRIMARY GOVERNMENT

Supplies of governmental funds are recorded as expenditures when purchased rather than capitalized as inventory. Accordingly, inventories for governmental funds are shown on the Statement of Net Position but not on the Governmental Funds Balance Sheet. Inventories of proprietary funds are valued at moving average cost except for the following:

- **Industrial and Commercial Development Fund** inventory represents real estate held for resale and is valued at cost.

## B. COMPONENT UNITS

All inventories are valued at moving average cost except for the following:

- **PGW** inventory consists primarily of fuel stock and gases which are stated at average cost.
- The **SDP** Food Services Fund inventories include food donated by the Federal Government which was valued at government cost or estimated value. All other food or supply inventories were valued at last unit cost and will be expensed when used.
- **PRA** inventory represents real estate held for resale and is recorded based on the estimated appraisal of values and cost basis of land inventories acquired.

## 6. CAPITAL ASSETS

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### A. PRIMARY GOVERNMENT

Capital Assets, which include property, plant, equipment and infrastructure assets (e.g. bridges, curbs and gutters, streets and sidewalks and lighting systems), are reported in the applicable governmental or business-type activities columns in the government wide financial statements. Capital assets are defined by the City as assets with an initial individual cost of more than \$5,000 and an estimated useful life in excess of three years (except for the Aviation Fund which uses \$10,000 for personal property and \$100,000 for fixed assets). Capital assets are recorded at cost. Costs recorded do not include interest incurred as a result of financing asset acquisition or construction. Assets acquired by gift or bequest are recorded at their acquisition price at the date of gift. Upon sale or retirement, the cost of the assets and the related accumulated depreciation, if any, are removed from the accounts. Maintenance and repair costs are charged to operations.

The City transfers Construction In Process to one or more of the major asset classes: (1) when project expenditures are equal to or have exceeded 90% of the estimated cost on new facilities (except for the Aviation Fund which uses "substantially complete" as their determining basis for transferring construction in process to one or more of the major asset classes), (2) when the expenditures are for existing facilities or (3) when they relate to specific identifiable items completed during the year which were part of a larger project.

Cost of construction for proprietary fund capital assets includes all direct contract costs plus overhead costs. Overhead costs include direct and indirect engineering costs and interest incurred during the construction period for projects financed with bond proceeds. Interest is capitalized on proprietary fund assets acquired with tax-exempt debt. The amount of interest to be capitalized is calculated by offsetting interest expense incurred from the date of the borrowing until completion of the project with interest on invested proceeds over the same period.

Depreciation on the capital assets for all City funds is provided on the straight-line method over their estimated useful lives: buildings - 20 to 50 years; equipment and storage facilities - 3 to 25 years; and transmission and distribution lines - 50 years.

Collections of art and historical treasures meet the definition of a capital asset and normally should be reported in the financial statements. However, the requirement for capitalization is waived for collections that meet certain criteria. The City has collections of art, historical treasures and statuary that are not capitalized as they meet all of the waiver requirements which are: (1) the collections are held solely for public exhibition, (2) the collections are protected, preserved and cared for and (3) should any items be sold, the proceeds are used only to acquire other items for the collections. Among the City's collections are historical artifacts at the Ryers Museum & Library, Loudoun Mansion, Fort Mifflin, Atwater Kent Museum and the Betsy Ross House. The city also has sculptures, paintings, murals and other works of art on display on public property and buildings throughout the City.

### B. COMPONENT UNITS

Depreciation on the capital assets for component units is provided on the straight-line method over their estimated useful lives: buildings - 15 to 50 years; equipment and storage facilities - 3 to 25 years; and transmission and distribution lines - 50 years.

## 7. BONDS AND RELATED PREMIUMS, DISCOUNTS & ISSUANCE COSTS

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In the *government-wide* financial statements and in the proprietary fund statements, bond premiums and discounts are deferred and amortized over the life of the bonds using the effective interest method. Bonds payable



are reported net of the applicable bond premium or discount. In FY13 GASB Statement No. 65 was implemented resulting in bond issuance costs being recognized as an expense and reported in the period incurred.

In *governmental fund* financial statements, bond premiums, discounts and issuance costs are recognized in the current period. The face amount of the debt is reported as other financing sources. Premiums received on debt issuance are reported as other financing sources while discounts are reported as other financing uses. Issuance costs are reported as debt issuance expenditures.

## 8. INSURANCE

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The City, except for the Airport and certain other properties, is self-insured for most fire and casualty losses to its structures and equipment and provides statutory workers' compensation and unemployment benefits to its employees. The City is self-insured for medical benefits provided to employees in the Fraternal Order of Police, the city-administered health plan, the International Association of Fire Fighters and District Council 47.

## 9. RECEIVABLES AND PAYABLES

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Activities between funds that are representative of lending/borrowing arrangements outstanding at the end of the fiscal year are referred to as due to/from other funds. Any residual balances outstanding between the governmental activities and business-type activities are reported in the *governmental-wide* financial statements as "internal balances".

Accounts receivable included in current assets consists of billed and unbilled rentals and fees, which have been earned but not collected as of June 30, 2016. Credit balance receivables have been included in unearned revenue in the statement of net position. The allowance for doubtful accounts is management's estimate of the amount of accounts receivable which will be deemed to be uncollectible and is based upon specific identification. Unpaid accounts are referred to the City's Law Department if deemed uncollectible. Accounts are written off when recommended by the Law Department.

In fiscal year 2015, the Division of Aviation and the Philadelphia Airport Affairs Committee (PAAC) entered into an agreement that would reduce the fiscal year 2015 base rate to the airlines in exchange for a \$10 million contribution from the Airport's Operation and Maintenance (O&M) reserve account that would be replenished by the signatory airlines, through the rates and charges process, over a three-year period from fiscal years 2016 to 2018. The Airport included this \$10 million as part of the \$32.5 million Accounts Receivable reported for the Aviation Fund in the FY 2015 Statement of Net Position. However, since the agreement states that repayment of the contribution is to take place over the next three years, \$6.7 million of the \$10 million receivable will not be collected until fiscal years 2017 and 2018.

All trade and property receivables in the governmental-wide financial statements are shown net of allowance for uncollectibles. The real estate tax receivable allowance is equal to 31.95% of outstanding real estate taxes at June 30. Property taxes are levied on a calendar year basis. The City's property taxes, levied on assessed valuation as of January 1, are due and payable on or before March 31. Taxes levied are intended to finance the fiscal year in which they become due. The City of Philadelphia and the School District of Philadelphia both impose a tax on all real estate in the City. Current real estate rates are \$1.3998 on each \$100 assessment; \$0.6317 for the City and \$0.7681 for the School District of Philadelphia. Delinquent charges are assessed at 1.5% per month on all unpaid balances as of April 1. Real estate tax delinquents are subject to lien as of the following January 1. The City has established real estate improvement programs that abate, for limited periods, tax increases that result from higher assessments for improved properties. Certain incremental tax assessments are earmarked to repay loans from the City to developers who improve properties under Tax Increment Financing agreements.

## 10. DEFERRED OUTFLOWS/INFLOWS OF RESOURCES AND NET POSITION

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Beginning with the fiscal year ended June 30, 2013 the City implemented GASB Statement No. 63, *Financial Reporting of Deferred Outflows of Resources, Deferred Inflows of Resources, and Net Position*. This GASB Statement replaces the term Net Assets with Net Position. Net Position is the residual of (a) assets and deferred outflows, less (b) liabilities and deferred inflows. The deferred classifications take into consideration the fact that governments enter into transactions that are applicable to future periods.

Also, beginning with the fiscal year ended June 30, 2013 the city chose to implement GASB Statement No. 65: *Items Previously Reported as Assets and Liabilities*. The objective of Statement No. 65 is to either properly classify or recognize certain items that were previously reported as assets and liabilities as outflows of resources (expenses/expenditures) or inflows of resources (revenues).

Beginning in fiscal year ended June 30, 2015 the city implemented GASB Statement No. 68, *Accounting and Financial Reporting for Pensions*. This statement requires the reporting of pension transactions that incorporates deferred

outflows of resources and deferred inflows of resources related to pensions over a defined, closed period, rather than a choice between an open or closed period.

Deferred Outflows of resources represents consumption of net position that applies to a future period(s) and will not be recognized as an expenditure/expense until that time. Deferred Inflows of resources represents an acquisition of net position that applies to future periods and will not be recognized as revenue until that time.

On the **full accrual basis** of accounting, the City has three items that qualify for reporting in all three categories.

- Derivative instruments are reported for the changes in fair value.
- Deferred Refunding results from the difference in the refunding of debt and its reacquisition price.
- Deferred pension transactions are recognized as an expense or revenue in a future period.

Six component units, including (**PGW**), (**PRA**), (**PPA**), (**SDP**), (**CCP**), and (**DRWC**) have items that qualify in some of the categories, which is deferred refunding and deferred pension categories. These items have been reported as deferred outflows or deferred inflows on the City's and the component unit's Statement of Net Position.

(Amounts in Thousands of USD)	Governmental Activities	Business Type Activities	Component Unit
<b>Deferred Outflows of Resources</b>			
Derivative Instrument	86,257	17,547	14,763
Deferred Charge of Refunding	71,720	53,765	186,012
Deferred Pension Expense	720,587	87,349	337,828
<b>Total:</b>	<b>878,564</b>	<b>158,661</b>	<b>538,603</b>

(Amounts in Thousands of USD)	Governmental Activities	Business Type Activities	Component Unit
<b>Deferred Inflows of Resources</b>			
Deferred Gain of Refunding	1,510	172	31
Deferred Pension Revenue	38,179	4,214	453,342
Unavailable Government Revenue	-	-	934
<b>Total:</b>	<b>39,689</b>	<b>4,385</b>	<b>454,307</b>

On the **modified accrual statements**, there were no deferred outflows and the City has three items that are reported in the Governmental Balance Sheet as deferred inflows: Unavailable Tax revenue, Unavailable Agency revenue and Unavailable Governmental revenue.

(Amounts in Thousands of USD)	General Fund	Grants Revenue Fund	Other Governmental Funds
<b>Deferred Inflows of Resources</b>			
Unavailable Tax Revenue	157,370	-	213
Unavailable Agency Revenue	49,017	-	-
Unavailable Government Revenue	39,845	353,701	67,271
<b>Total:</b>	<b>246,232</b>	<b>353,701</b>	<b>67,484</b>

## 11. COMPENSATED ABSENCES

It is the City's policy to allow employees to accumulate earned but unused vacation benefits. Vacation pay is accrued when earned in the *government-wide* financial statements and in the proprietary and fiduciary-fund financial statements. Sick leave balances are not accrued in the financial statements because sick leave rights are non-vesting.

## 12. CLAIMS AND JUDGMENTS

Pending claims and judgments are recorded as expenses in the *government wide* financial statements and in the proprietary and fiduciary fund financial statements when the City solicitor has deemed that a probable loss to the

City has occurred. Claims and judgments are recorded as expenditures in the government fund financial statements when paid or when judgments have been rendered against the City.

### 13. UNEARNED REVENUE

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GASB Statement No. 65 prohibits the usage of the term “deferred” on any line items other than deferred inflows or outflows. Therefore, the term “Deferred Revenue” has been replaced by “Unearned Revenue”. Unearned Revenue as reported in all the City’s fund financial statements represents revenue received in advance with the exception of the General Fund. The General Fund reports two types of unearned revenue, Revenue Received in Advance (\$5.7 million) and Business Income and Receipts Tax (BIRT) (\$169.5 million).

### 14. NEW ACCOUNTING STANDARDS

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In fiscal year 2016, the City implemented **GASB Statement No. 72, Fair Value Measurement and Application, (GASB 72)**. This Statement addresses accounting and financial reporting issues related to fair value measurements and provides guidance for determining a fair value measurement for financial reporting purposes. This Statement also provides guidance for applying fair value to certain investments and disclosures related to all fair value measurements. The requirements of this Statement are effective for financial statements for periods beginning after June 15, 2015. As a result of the adoption of GASB 72, the City has determined and disclosed all fair value measurements.

In June 2015, GASB issued **Statement No. 73, Accounting and Financial Reporting for Pensions and Related Assets That Are Not within the Scope of GASB Statement No. 68, and Amendments to Certain Provisions of GASB Statements 67 and 68**. The requirements of this Statement for pension plans that are within the scope of Statement 67 or for pensions that are within the scope of Statement 68 are effective for fiscal years beginning after June 15, 2015. The City’s accounting and financial reporting are within the scope of Statement No 68. The adoption of this Statement did not result in any significant changes to the City’s financial statements.

In June 2015, GASB issued **Statement No. 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans**. The objective of this Statement is to improve the usefulness of information about postemployment benefits other than pensions (other postemployment benefits or OPEB) included in the general purpose external financial reports of state and local governmental OPEB plans for making decisions and assessing accountability. This Statement replaces Statement No. 43, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans. The scope of this Statement includes OPEB plans— defined benefit and defined contribution—administered through trusts that meet certain criteria. This Statement also includes requirements to address financial reporting for assets accumulated for purposes of providing defined benefit OPEB through OPEB plans that are not administered through trusts that meet specified criteria. This Statement is effective for financial statements for fiscal years beginning after June 15, 2016. The City has not completed the process of evaluating the impact of adopting this Statement.

In June 2015, GASB issued **Statement No. 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions**. The primary objective of this Statement is to improve accounting and financial reporting by state and local governments for postemployment benefits other than pensions (OPEB). This Statement replaces the requirements of Statement No. 45, Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions. It establishes standards for recognizing and measuring liabilities, deferred outflows of resources, deferred inflows of resources, and expense/expenditures. For defined benefit OPEB, this Statement identifies the methods and assumptions that are required to be used to project benefit payments, discount projected benefit payments to their actuarial present value, and attribute that present value to periods of employee service. Note disclosure and required supplementary information requirements about defined benefit OPEB also are addressed. This Statement is effective for fiscal years beginning after June 15, 2017. The City has not completed the process of evaluating the impact of adopting this Statement.

In June 2015, GASB issued **Statement No. 76, The Hierarchy of Generally Accepted Accounting Principles for State and Local Governments**. The objective of this Statement is to identify – in the context of the current governmental financial reporting environment – the hierarchy of generally accepted accounting principles (GAAP). The “GAAP hierarchy” consists of the sources of accounting principles used to prepare financial statements of state and local governmental entities in conformity with GAAP and the framework for selecting those principles. This Statement addresses the use of authoritative and non-authoritative literature in the event that the accounting treatment for a transaction or other event is not specified within a source of authoritative GAAP. This Statement supersedes Statement No. 55, The Hierarchy of Generally Accepted Accounting Principles for State and Local Governments. The requirements of this Statement are effective for financial statements for periods beginning after June 15, 2015. The adoption of this Statement did not result in any significant changes to the City’s financial statements.

In August 2015, GASB issued **Statement No. 77, Tax Abatement Disclosures**. This Statement requires governments that enter into tax abatement agreements to disclose certain information regarding the tax being abated, the authority under which tax abatements are provided, eligibility criteria, the mechanism by which taxes are abated, provisions for recapturing abated taxes, and the types of commitments made by tax abatement recipients. It also requires disclosure of the gross dollar amount of taxes abated during the period and commitments made by a government, other than to abate taxes, as part of a tax abatement agreement. The requirements of this Statement are effective for financial statements for periods beginning after December 15, 2015. The City has not completed the process of evaluating the impact of adopting this Statement.

In December 2015, GASB issued **Statement No. 78, Pensions Provided through Certain Multiple-Employer Defined Benefit Pension Plans**. The objective of this Statement is to address a practice issue regarding the scope and applicability of Statement No. 68, Accounting and Financial Reporting for Pensions. This issue is associated with pensions provided through certain multiple-employer defined benefit pension plans and to state or local governmental employers whose employees are provided with such pensions. The requirements of this Statement are effective for reporting periods beginning after December 15, 2015. The City has not completed the process of evaluating the impact of adopting this Statement.

In December 2015, GASB issued **Statement No. 79, Certain External Investment Pools and Pool Participants, (GASB 79)**. This Statement addresses accounting and financial reporting for certain external investment pools and pool participants. It establishes criteria for an external investment pool to qualify for making the election to measure all of its investments at amortized cost for financial reporting purposes. The requirements of this Statement are effective for reporting periods beginning after June 30, 2015, except for certain provisions on portfolio quality, custodial credit risk, and shadow pricing which are effective for reporting periods beginning after December 15, 2015. As a result of the adoption of GASB 79, the City has determined and included all applicable disclosures.

In January 2016, GASB issued **Statement No. 80, Blending Requirements For Certain Component Units, an amendment of GASB Statement No. 14**. The objective of this Statement is to improve financial reporting by clarifying the financial statement presentation requirements for certain component units. This Statement amends the blending requirements established in paragraph 53 of Statement No. 14, The Financial Reporting Entity. The requirements of this Statement are effective for reporting periods beginning after June 15, 2016. The City has not completed the process of evaluating the impact of adopting this Statement.

In March 2016, GASB issued **Statement No. 81, Irrevocable Split-Interest Agreements**. The objective of this Statement is to improve accounting and financial reporting for irrevocable split-interest agreements by providing recognition and measurement guidance for situations in which a government is a beneficiary of the agreement. The requirements of this Statement are effective for reporting periods beginning after December 15, 2016. The City has not completed the process of evaluating the impact of adopting this Statement.

In March 2016, GASB issued **Statement No. 82, Pension Issues, an amendment of GASB Statements No. 67, No. 68, and No. 73**. The objective of this Statement is to address certain issues regarding the presentation of payroll-related measures in required supplementary information, the selection of assumptions and the treatment of deviations from the guidance in an Actuarial Standard of Practice for financial reporting purposes, and the classification of payments made by employers to satisfy employee (plan member) contribution requirements. The requirements of this Statement are effective for reporting periods beginning after June 15, 2016. The City has not completed the process of evaluating the impact of adopting this Statement.

In November 2016, GASB issued **Statement No. 83, Certain Asset Retirement Obligations**. This Statement addresses accounting and financial reporting for certain asset retirement obligations (AROs). An ARO is a legally enforceable liability associated with the retirement of a tangible capital asset. The requirements of this Statement are effective for reporting periods beginning after June 15, 2018. The City has not completed the process of evaluating the impact of adopting this Statement.

In January 2017, GASB issued **Statement No. 84, Fiduciary Activities**. The objective of this Statement is to improve guidance regarding the identification of fiduciary activities for accounting and financial reporting purposes and how those activities should be reported. The requirements of this Statement are effective for reporting periods beginning after December 15, 2018. The City has not completed the process of evaluating the impact of adopting this Statement.

## II. LEGAL COMPLIANCE

### 1. BUDGETARY INFORMATION

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The City's budgetary process accounts for certain transactions on a basis other than generally accepted accounting principles (GAAP). In accordance with the Philadelphia Home Rule Charter, the City has formally established budgetary accounting control for its operating and capital improvement funds.

The operating funds of the City, consisting of the General Fund, nine Special Revenue Funds (County Liquid Fuels Tax, Special Gasoline Tax, HealthChoices Behavioral Health, Hotel Room Rental Tax, Grants Revenue, Community Development, Car Rental Tax, Housing Trust, and Acute Care Hospital Assessment Funds) and two Enterprise Funds (Water and Aviation Funds), are subject to annual operating budgets adopted by City Council. Included with the Water Fund is the Water Residual Fund. These budgets appropriate funds for all City departments, boards and commissions by major class of expenditure within each department. Major classes are defined as: personal services; purchase of services; materials and supplies; equipment; contributions, indemnities and taxes; debt service; payments to other funds; and advances and other miscellaneous payments. The appropriation amounts for each fund are supported by revenue estimates and take into account the elimination of accumulated deficits and the re-appropriation of accumulated surpluses to the extent necessary. All transfers between major classes (except for materials and supplies and equipment, which are appropriated together) must have council approval. Appropriations that are not expended or encumbered at year end are lapsed. Comparisons of budget to actual activity at the legal level of compliance are located in the City's *Supplemental Report of Revenues and Obligations*, a separately published report.

The City Capital Improvement Fund budget is adopted annually by the City Council. The Capital Improvement budget is appropriated by project for each department. All transfers between projects must be approved by City Council. Any funds that are not committed or expended at year end are lapsed. Comparisons of departmental project actual activity to budget are located in the City's *Supplemental Report of Revenues and Obligations*.

The budgetary comparison schedules presented differ from the modified accrual basis of accounting. These schedules differ from the GAAP basis statements in that both expenditures and encumbrances are applied against the current budget, adjustments affecting activity budgeted in prior years are accounted for through fund balance or as reduction of expenditures and certain interfund transfers and reimbursements are budgeted as revenues and expenditures.

During the year, classification adjustments and supplementary appropriations were necessary for City funds. Therefore, budgeted appropriation amounts presented are as originally passed and as amended by the City Council. As part of the amendment process, budget estimates of City related revenues are adjusted and submitted to City Council for review. Changes in revenue estimates do not need City Council approval, but are submitted in support of testimony with regard to the appropriation adjustments. Revenue estimates are presented as originally passed and as amended.

## III. DETAILED NOTES ON ALL FUNDS AND ACCOUNTS

### 1. DEPOSITS AND INVESTMENTS

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#### A. City

##### City Deposits

State statutes require banks to collateralize City deposits at amounts equal to or in excess of the City's balance. Such collateral is to be held by the Federal Reserve Bank or the trust department of a commercial bank other than the pledging bank. At year-end, the bank balance for City deposits was \$621.3 million.

##### City Investments

The City has established a comprehensive investment policy that covers all funds other than the Municipal Pension Fund, Philadelphia Gas Works Retirement Reserve (PGW Pension Fund), and the Fairmount Park and Free Library Trust Funds. Those funds have separate investment policies designed to meet the long-term goals of the fund.

As of June 30, 2016 the total investments of the City, as well as both Pension Trust Funds and the Fairmount Park and Free Library Trust Funds, consisted of:

(amounts in thousands of USD)

Classification	City	City Trust Funds	PGW Pension Fund	Municipal Pension Fund	Grand Total
Certificate of Deposit	\$ 2,500	\$ -	\$ -	\$ -	\$ 2,500
State of PA - Invest Program	877	-	-	-	877
Short-Term Investment Pools	105,915	-	16,976	145,697	268,588
Commercial Paper	342,231	-	-	-	342,231
U.S. Government Securities	629,212	1	35,965	174,836	840,014
U.S. Government Agency Securities	540,649	-	19,659	40,428	600,736
Municipal Debt	-	-	4,038	7,404	11,442
Foreign Debt	-	-	5,815	130,923	136,738
Corporate Bonds	189,108	-	46,428	304,026	539,562
Collateralized Debt Obligations	-	-	42,851	115,240	158,091
Other Bonds and Investments	-	3,955	35	-	3,990
Corporate Equities	-	2,859	315,661	2,257,989	2,576,509
Limited Partnerships	-	-	-	412,840	412,840
Hedge Funds	-	-	-	86,390	86,390
Real Estate	-	-	-	229,875	229,875
Private Equity	-	-	-	437,908	437,908
Grand Total	<u>\$ 1,810,492</u>	<u>\$ 6,815</u>	<u>\$ 487,428</u>	<u>\$ 4,343,555</u>	<u>\$ 6,648,291</u>

The City's investments include all operating, capital, debt service and debt service reserve accounts of the City's General Fund, Water Department and Aviation Division. All City investments must be in compliance with applicable provisions of the City Code and City bond resolutions, as well as the City's Investment Policy. The City's Investment Policy is meant to supplement the applicable provisions of the City Code and City bond resolutions, and is reviewed and adopted by the City's Investment Committee. The City's Investment Committee consists of the Director of Finance, the City Treasurer, a representative from the Water Department, Aviation Division, and the Philadelphia Gas Works.

#### City Investments - Credit Risk

##### *Credit Risk:*

The City's policy to limit credit risks by limiting the type of allowable investment, as well as the maximum percent of the portfolio for each type of investment.

The City's investment in US Government securities (34.75%) or US Government Agency obligations (29.86%) are allowable investments up to 100% of the portfolio. The US Government Agency obligations must be rated AAA by Standard & Poor's Corp. (S&P) or Aaa by Moody's Investor Services. All US Government Securities meet the criteria.

The City's investment in Commercial paper (18.90%) is limited to 25% of the portfolio, and must be rated A1 by S&P and/or M1G1 by Moody's Investor's Services, Inc. (Moody's) and the senior long-term debt of the issuer must not be rated lower than A by S&P and/or Moody's. All commercial paper investments meet the criteria.

The City's investment in corporate bonds (10.45%) are limited to 25% of the portfolio, and had a S&P rating of AAA to AA or Moody's rating of Aa2 or better.

Short Term Investment Pools are rated AAA by S&P and Aaa by Moody's Investor Services. The Short Term Investment Pools' amortized cost-based net asset value per share/unit is the same as the value of the pool shares. Cash accounts are swept nightly and idle cash invested in money market funds (short term investment pools).

The City limits its foreign currency risk by investing in certificates of deposit and banker's acceptances issued or endorsed by non-domestic banks that are denominated in US dollars providing that the banking institution has assets of not less than \$100 million and has a Thompson's Bank Watch Service "Peer Group Rating" not lower than II. At the end of the fiscal year, the City did not have any investments of that nature.

To minimize custodial credit risk, the City's policy is to select custodian banks that are members of the Federal Reserve System to hold its investments. Delivery of the applicable investment documents to the City's custodian is required for all investments.

### City Investments - Interest Rate Risk

*Interest Rate Risk:* The City's investment portfolio is managed to accomplish preservation of principal, maintenance of liquidity and maximize the return on the investments. To limit its exposure to fair value losses from rising interest rates, the City's investment policy limits fixed income investments to maturities of no longer than 2 years, except in Sinking Fund Reserve Portfolios.

Classifications	(amounts in thousands of USD)					Total
	Less than 6 months	7 to 12 months	13 to 18 months	19 to 24 months	Greater than 24 months	
Certificate of Deposit	2,500	-	-	-	-	2,500
Commercial Paper	312,600	29,631	-	-	-	342,231
U.S. Government Security	123,191	202,396	276,518	27,107	-	629,212
U.S. Government Agency Securities	133,482	228,185	85,632	70,551	22,800	540,649
Corporate Bonds	26,731	100,362	28,813	33,201	-	189,108
Grand Total	598,504	560,574	390,963	130,859	22,800	1,703,700

### City Investments – Fair Value Measurement

The City measures and records its investments using fair value measurement guidelines established by generally accepted accounting principles. These guidelines recognize a three-tiered fair value hierarchy, as follows:

- Level 1: Observable inputs that reflect quoted prices (unadjusted) for identical assets or liabilities in active markets
- Level 2: Inputs other than quoted prices included in Level 1 that are observable for the asset or liability
- Level 3: Unobservable inputs for assets or liabilities

The City has the following recurring fair value measurements as of June 30, 2016:

- U.S. Treasury securities of \$629.2 million are valued using quoted prices from active markets (Level 1)
- U.S. Agency securities of \$540.6 million are valued using quoted prices for identical securities traded in active markets when sufficient activity exists (Level 2)
- Corporate bond securities of \$189.1 million are valued using quoted prices for similar securities in active markets and via matrix pricing models (Level 2)
- Commercial paper securities of \$342.2 million are valued using quoted prices for identical securities in markets that are not active and via matrix pricing models (Level 2)

The City's certificate of deposit of \$2.5 million is valued at cost.

The City's money market and short term investment pools of \$106.8 million are valued at the published amortized cost-based net asset value per share/unit for each fund. There are no limitations or restrictions on withdrawals.

### Municipal Pension Fund

See Footnote IV. 1. PENSION PLANS A. (1) e. Cash Deposits, Investments and Securities Lending

### Philadelphia Gas Works Retirement Reserve (PGWRR)

See Footnote IV. 1. PENSION PLANS A. (2) c. Summary of Significant Accounting Policies and Plan Asset Matters

## B. Blended Component Units

### 1) PICA

The Authority may deposit funds in any bank that is insured by federal deposit insurance. To the extent that the deposits exceed federal insurance, the depositories must deposit (with their trust department or other custodian) obligations of the US Government, the Commonwealth of Pennsylvania or any political subdivision of the Commonwealth. Investments must be made in accordance with a trust indenture that restricts investments to obligations of the City of Philadelphia, government obligations, repurchase agreements collateralized by direct obligations of or obligations the payments of principal and interest on which are unconditionally guaranteed as to full and timely payment by the United States of America, money market mutual fund shares issued by a fund having assets not less than \$100,000,000 or guaranteed investment contracts (GIC) with a bank insurance company or other financial institution that is rated in one of the three highest rating categories by the rating agencies and which GICs are either insured by municipal bond insurance or fully collateralized at all times.

At June 30, 2016 the carrying amount of **PICA's** deposits with financial institutions (including certificates of deposit and shares in US government money market funds) and other short-term investments was \$106.1 million. Statement balances were insured or collateralized as follows:

	(Millions of USD)
Insured	5.9
Uninsured and uncollateralized	100.2
Total:	<u>\$ 106.1</u>

**PICA's** deposits include bank certificates of deposit with a remaining maturity of one year or less and shares in US government money market funds. U.S. Government agency investments with a remaining maturity of one year or less are classified as short-term investments.

All of the Authority's investments are category (1) credit risk. Credit risk categories are defined as follows:

- Insured or registered securities held by the entity or its agent (bank trust department) in the entity's name.
- Uninsured and unregistered, with securities held by the counterparty, or by its trust department or agent in the entity's name.
- Uninsured and unregistered, with securities held by the counterparty, or by its trust department or agent, but not in the entity's name.

The following table summarizes the investments within the fair value hierarchy at June 30, 2016:

<u>Investments by fair value level</u>	<u>Fair Value Measurements Using</u>			<u>Totals</u>
	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	
Cash & Cash Equivalents	29,177,907			29,177,907
U.S. Agencies	18,228,379			18,228,379
Municipal/Public Bonds		48,759,652		48,759,652
Bond Mutual Funds	9,932,927			9,932,927
<u>Total</u>	<u>\$57,339,213</u>	<u>\$48,759,652</u>		<u>106,098,865</u>

**Fair Value of Investments:** Investments and derivatives are recorded at fair value as of June 30, 2016. GASB Statement No. 72 – Fair Value Measurement and Application, defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. This statement establishes a hierarchy of valuation inputs based on the extent to which the inputs are observable in the marketplace. Inputs are used in applying the various valuation techniques and take into account the assumptions that market participants use to make valuation decisions. Inputs may include price information, credit data, interest and yield curve data, and other factors specific to the financial instrument. Observable inputs reflect market data obtained from independent sources. In contrast, unobservable inputs reflect



the entity's assumptions about how market participants would value the financial instrument. Valuation techniques should maximize the use of observable inputs to the extent available. A financial instrument's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. The following describes the hierarchy of inputs used to measure fair value and the primary valuation methodologies used for financial instruments measured at fair value on a recurring basis:

- Level 1 Investments whose values are based on quoted prices (unadjusted) for identical assets (or liabilities) in active markets that a government can access at the measurement date.
- Level 2 Investments with inputs – other than quoted prices included within Level 1 – that are observable for an asset (or liability), either directly or indirectly.
- Level 3 Investments classified as Level 3 have unobservable inputs for an asset (or liability) and may require a degree of professional judgment.

### Investment Derivative Instruments

As of June 30, 2016, PICA's basis caps did not meet the criteria for effectiveness as a hedging instrument. Therefore, they are reported as investment derivative instruments.

Government Activities	Changes in Fair Value		Fair Value as of June 30, 2016		
	Classification	Amount	Classification	Amount	Notional Amount
2003 Basis Cap	Investment Income	8,523	Investment	739,200	68,575,000
1999 Basis Cap	Investment Income	21,660	Investment	1,831,833	144,035,000

### PICA Series of 2003 and 1999 Basis Cap Agreements

**PICA** entered into two basis cap transactions with JPMorgan Chase Bank, one in June 2003 related to the 2003 swap and one in April 2004 related to the 1999 swaption. For the 2003 basis cap transaction, beginning June 15, 2003, the counterparty pays the Authority a fixed rate each month of .40% per year and the Authority will pay the counterparty a variable rate based on the greater of (a) the average of SIFMA for the month divided by one-month LIBOR less 70%, multiplied by the one-month LIBOR, times the notional amount times the day count fraction or (b) zero. The notional amount and term of the agreement equals the notional amount and term of the 2003 interest rate swap noted above.

For the 1999 basis cap transaction, beginning June 15, 2009, the counterparty will pay the Authority a fixed-rate each month of .46% per year and the Authority will pay the counterparty a variable rate based on the greater of (a) the average of SIFMA for the month divided by one-month LIBOR, less 70%, multiplied by one-month LIBOR, times the notional amount times the day count fraction or (b) zero. The notional amount and term of this agreement equals the notional amount and term of the 1999 interest rate swaption noted above. The objective of each basis cap is to generate income. If the ratio of SIFMA/LIBOR rises sharply, the anticipated benefit might not be realized.

**Fair value:** As of June 30, 2016, the 2003 Basis Cap had a positive fair value of \$739,200. This means that **PICA** would receive this amount to terminate the 2003 basis cap. As of June 30, 2016, the 1999 Basis Cap had a positive fair value of \$1,831,833. This means that **PICA** would receive this amount to terminate the 1999 basis cap. The fair values of the swaps were measured using the zero coupon discount method and are categorized within Level 2 of the fair value hierarchy.

**Risk:** The basis caps include an additional termination event based on credit ratings. The basis cap may be terminated by the Authority if the counterparty's ratings fall below A- or A3 and collateral is not posted within 15 days.

## 2) PHILADELPHIA MUNICIPAL AUTHORITY

The authority does not have a formally adopted investment policy; however, the terms of their bond indentures limit the investments in which the trustee can deposit funds. These limited investments include US government obligations, repurchase agreements for government obligations, certificates of deposits and other time deposit arrangements with financial institutions. Investments at June 30 are summarized as follows:

	(thousands of USD)	
	<u>Fair Value</u>	<u>Cost</u>
Money Market Funds	\$ 28,167	\$ 28,167
	<u>\$ 28,167</u>	<u>\$ 28,167</u>

The Authority does not have a formally adopted investment policy related to credit risk, but generally follows the practices of the City. Investments in money market funds were not rated. Depository cash accounts consisted of \$291,370 on deposit with two local banks. Amounts are insured by the FDIC up to \$250,000 per bank. Deposits in excess of the FDIC limit are collateralized with securities held by the pledging financial institution's trust department or agent in the Authority's name. As of June 30, 2016, the Authority did not have any uninsured deposits on hand.

**Fair Value Measurement:** Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Fair value is a market based measurement, not an entity-specific measurement. For some assets and liabilities, observable market transactions or market information might be available; for others, it might not be available. However, the objective of a fair value measurement in both cases is the same that is, to determine the price at which an orderly transaction to sell the asset or to transfer the liability would take place between market participants at the measurement date under current market conditions. Fair value is an exit price at the measurement date from the perspective of a market participant that controls the asset or is obligated for the liability. The fair value hierarchy categorizes the inputs to valuation techniques used to measure fair value into three levels. Level 1 inputs are quoted prices (unadjusted) for identical assets or liabilities in active markets that a government can access at the measurement date. Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for an asset or liability, either directly or indirectly. Level 3 inputs are unobservable inputs for an asset or liability. The fair value hierarchy gives the highest priority to Level 1 inputs and the lowest priority to Level 3 inputs.

The Authority's investments qualify as Level 1 investments.

## C. Discretely Presented Component Units

### 1. Philadelphia Authority for Industrial Development Basis Swap

As of June 30, 2016, **PAID's** basis swap did not meet the criteria for effectiveness as a hedging instrument. Therefore, it is reported as an investment derivative instrument.

					(amounts in thousands)
<u>Changes in Fair Value</u>		<u>Fair Value at June 30, 2016</u>			
<u>Classification</u>	<u>Amount</u>	<u>Classification</u>	<u>Amount</u>	<u>Notional</u>	
<b>Governmental activities</b>					
<b>Investment derivatives:</b>					
<b>Basis Swap</b>	Investment Revenue	1,546	Investment	(516)	193,520

**Objective:** **PAID** entered into a basis swap that became effective on July 1, 2004, that provided **PAID** with ten equal payments of \$1.2 million with the first payment due on July 1, 2004. **PAID** executed the basis swap to create a benefit similar to entering into a synthetic refunding, using a swap based on a percentage of LIBOR, without having to issue bonds or eliminate future advance refunding opportunities. In July, 2006, a portion of the existing basis swap was restructured such that the variable rate received by **PAID** was converted from a percentage of one month LIBOR to a percentage of the five year LIBOR swap rate, on a forward starting basis. This was intended to provide for potentially significant long-term savings while also providing for a diversification of the City's variable rate index on its entire swap portfolio. The restructured portion of the swap was terminated in December 2009 at a benefit.

**Terms:** The original swap was executed with Merrill Lynch Capital Service Inc. ("MLCS") with payments based on an amortization schedule and an initial notional amount of \$298.5 million. The swap commenced on July 1, 2004 and matures on October 1, 2030. Under the swap, **PAID** pays a variable rate equal to the SIFMA Municipal Swap Index and receives a variable rate computed as 67% of one-month LIBOR + 20 basis points. **PAID**, also received ten equal payments of \$1.2 million from MLCS starting on July 1, 2004. Payments under this swap are a lease rental obligation of the City.

A portion of the original transaction in the amount of \$105 million was amended such that the variable payments received by **PAID** were computed as 62.89% of five year LIBOR + 20 basis points (replacing 67% of one month LIBOR + 20 basis points). The amendment effective date was October 1, 2006, with variable payments to be made (as described above) through October 1, 2020. On December 1, 2009, **PAID** terminated that portion of the swap that was subject to the amendment and received a termination payment of \$3,049,000.

As of June 30, 2016, the notional amount on the portion of the swap that was not amended was \$193.5 million.

**Fair Value:** As of June 30, 2016, the swap had a negative fair value of (\$515,877). The fair value reflects the effect of non-performance risk, which includes the credit risk. This means that **PAID** would have to pay this amount to terminate the swap. The fair value of the swap was measured using the income approach and is categorized within Level 2 of the fair value hierarchy.

**Risks:** As of June 30, 2016, **PAID** is not exposed to credit risk because the swap had a negative fair value. Should interest rates change and the fair value of the swap become positive, **PAID** would be exposed to credit risk in the amount of the swaps' fair value. The swap includes an additional termination event based on credit ratings. The swap may be terminated by **PAID** if the ratings of MLCS's guarantor (Merrill Lynch & Co.) falls below Baa3 or BBB- or the swap may be terminated by MLCS if the City's rating falls below Baa3 or BBB-. There is a 3-day cure period to these termination events.

The swap exposes **PAID** to basis risk, the risk that the relationship between one month LIBOR and the SIFMA index may change from the historic pattern that existed when the swap was entered into. If SIFMA averages higher than 67% of one month LIBOR plus 20 bps, the anticipated savings of the swap will be reduced and may not materialize.

## 2. School District of Philadelphia Basis Swaps

**Objective, Terms, Fair Value and Accounting of Derivative Instruments:** The School District engaged an independent pricing service with no vested interest in the interest rate swap transactions to perform the valuations, and evaluation of the swaps for compliance with GASB 53. Fair values take into consideration the prevailing interest rate environment and the specific terms and conditions of each swap. All fair values were estimated using the zero-coupon discounting method. This method calculates the future payments required by the swap, assuming that the current forward rates implied by the yield curve are the market's best estimate of future spot interest rates. These payments are then discounted using the spot rates implied by the current yield curve for a hypothetical zero-coupon rate bond due on the date of each future net settlement payment on the swaps. Fair values reflect the effect of non-performance risk, which includes the School District's credit risk.

The swaps where the School District pays and receives floating rates--basis swaps--are deemed investment instruments under GASB 53 and are accounted for as investment instruments.

The table below displays the objectives, terms, and fair values of the School District's derivative instruments outstanding as of June 30, 2016 along with the counterparties and their credit ratings.

Associated Bonds	Initial Notational	Current Notational	Effective Date	Maturity Date	Rate Paid	Rate Received	Fair Value	Bank Counterparty	Counterparty Ratings
Series 2003 School Lease Revenue Bonds	\$150,000,000	\$150,000,000	11/30/2006	5/15/2033	SIFMA Swap 67% of USD-LIBOR Index	+ 2.788%	(\$199,210)	Wells Fargo Bank, N.A.	Aa2/AA-/AA
Series 2003 School Lease Revenue Bonds	\$350,000,000	\$350,000,000	11/30/2006	5/15/2033	SIFMA Swap 67% of USD-LIBOR Index	+ 2.788%	(\$464,823)	JPMorgan Chase Bank, N.A.	Aa3/A+/AA-
							<u>(\$664,033)</u>		

**Basis risk/Interest rate risk.** The primary objective of the basis swaps was for the School District to reduce interest cost from the expected benefit resulting from short term tax-exempt rates reflecting prevailing income tax rates throughout the life of the swap. The School District receives a percentage of 1-Month LIBOR plus a spread of 0.2788% and pays the SIFMA tax-exempt rate, with the expectation of a 0.2788% net benefit over the life of the swap as long as tax rates remain the same. The historical average ratio of 1-Month LIBOR (short-term taxable rates) versus SIFMA Swap Rates (short-term tax-exempt rates), a direct function of income tax rates, is approximately 67%.

Therefore, there needs to be a spread payable to the School District in exchange for 67% of LIBOR over the long term and this is the value of the benefit, the risk being tax rates change over the life of the basis swap. This additional receipt of 0.2788% to the School District is the expected benefit and reduction to interest cost on the associated bonds for the life of the basis swap transaction. From the date of execution of the two basis swaps through June 30, 2016, the net benefit to the School District has been \$15,079,433

The value of such a swap is determined by the prevailing level of taxable interest rates received versus the level of tax-exempt interest rates paid.

*Credit risk:* This is the risk that the counterparty fails to perform according to its contractual obligations. The appropriate measurement of this risk, at the reporting date, is the total fair value of swaps netting, or aggregating, under a contract between the School District and each counterparty. The School District would be exposed to credit risk on derivative instruments under a netting agreement that would total to an asset position. As of June 30, 2016, the School District has no credit risk exposure on the two basis swap contracts because the swaps under each netting agreement with each counterparty have negative fair values, meaning the counterparties are exposed to the School District in the amount of the derivatives' fair values. However, should interest rates change and the fair values of the swaps become positive, the School District would be exposed to credit risk.

The basis swap agreements contain varying collateral agreements with the counterparties. The swaps require collateralization of the fair value of the swap should the counterparty's credit rating fall below the applicable thresholds.

*Termination risk:* Only the School District may terminate the two existing basis swaps if the counterparty fails to perform under the terms of the respective contracts. If at the time of termination, the swaps have a negative fair value, the School District would be liable to the counterparty for a payment equal to the swap's fair value.

## 2. SECURITIES LENDING

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### A. GOVERNMENTAL FUNDS:

The City Treasurer is prohibited from lending or selling city-owned securities with an agreement to buy them back after a stated period of time (City of Philadelphia - Investment Policy Section VI. Investment Restrictions)

### B. PENSION TRUST FUNDS:

#### 1) City Plan (Municipal Pension Fund):

The Board of Directors of the Municipal Pension Fund has authorized management of the Fund to participate in securities lending transactions.

See Footnote IV. 1. PENSION PLANS A. (1) e. Cash Deposits, Investments and Securities Lending

#### 2) Philadelphia Gas Works (PGW) Plan

The Board of Directors of the Sinking Fund Commission on behalf of Philadelphia Gas Works Retirement Reserve Fund ("PGWRR") has authorized the management of these funds to participate in securities lending transactions.

As of June 1, 2014, the Plan no longer participates in a securities lending program. In December 2011, Wells Fargo, the custodian of the Plan, with the written consent of the Plan, assigned the securities lending program to Citibank. The agreement between the parties gave both parties the right to terminate the arrangement with at least 15 days' notice. On May 9, 2014, Citibank gave written communication to the Plan that they wished to terminate the arrangement effective June 1, 2014.

### 3. AMOUNTS HELD BY FISCAL AGENT

Two of the City's component units (**PAID** and **PRA**) have issued debt that, in accordance with GASB Interpretation #2, is considered conduit debt. Therefore, no asset related to the bond proceeds or liability related to the bonds is shown on their respective financial statements. However, since the City, through various agreements is responsible for the debt, the proceeds of the issuance are shown as assets of the City.

#### A. GOVERNMENTAL FUNDS

General Fund - Consists of cash and investment balances related to the net proceeds of **PAID**'s Sports Stadium Financing Lease Revenue Bonds Series A & B of 2007 and series 2014A, **PAID**'s Cultural & Commercial Corridor Lease Revenue Bonds Series 2006, **PAID** City Service Agreement Refunding Revenue Series Bond 2012, **PAID**'s City Service Agreement Series 2014A for the Philadelphia School District, **PAID**'s City Agreement - Cultural & Commercial Corridor Program - Revenue Refunding Series Bond 2016A, and **PAID**'s City Agreement - Philadelphia Central Library Project - Revenue Refunding Series Bond 2016B.

Grants Revenue Fund - Consists of cash and investment balances related to the net proceeds of the **PRA**'s City of Philadelphia Neighborhood Transformation Initiative Bonds.

#### B. PROPRIETARY FUNDS

Aviation Fund consists of cash and investment balances related to the net proceeds of **PAID**'s Airport Revenue Bonds, Series 1998A and 2001A. The proceeds are held by a fiscal agent and disbursed at the City's direction to pay for airport related capital improvements.

### 4. INTERFUND RECEIVABLES AND PAYABLES

#### A. PRIMARY GOVERNMENT

Interfund receivable and payable balances among Primary Government funds at year-end are the result of the time lag between the dates that interfund goods and services are provided, the date the transactions are recorded in the accounting system and the date payments between funds are made. All balances are expected to be settled during the subsequent year. Interfund receivable and payable balances within the Primary Government at year-end are as follows:

Interfund Receivables Due to:					
	General	Non major Governmental		Other Funds	Total
		Special Revenue	Debt Service		
<b>Interfund Payables Due From:</b>					
General	-	-	-	699	699
Grants Revenue Fund	41,912	-	-	-	41,912
Non major Special Revenue Funds	10,271	39	-	-	10,310
<b>Total</b>	<b>52,183</b>	<b>39</b>	<b>-</b>	<b>699</b>	<b>52,921</b>

#### B. COMPONENT UNITS

Interfund receivables and payables between the Primary Government and its Component Units at year-end are the result of the time lag between the dates that interfund goods and services are provided, the date the transactions are recorded in the accounting system and the date payments between funds are made. All interfund balances are expected to be settled during the subsequent year. Interfund receivable and payable balances among the Primary Government and Component Units at year-end are as follows:

(Amounts in Thousands of USD)	Receivables Due to:							Timing Difference	Total
	General	Aviation	CBH	PRA	PAID	PGW	PPA		
<b><u>Payables Due From:</u></b>									
General Fund	-	-	-	-	-	82	3	-	85
Behavioral Health	-	-	38,342	-	-	-	-	-	38,342
Grants Revenue	-	-	414	3,527	-	-	-	-	3,941
Community Dev.	-	-	-	5,037	-	-	-	-	5,037
Water Fund	-	-	-	155	784	-	9	(30)	918
PPA	11,764	26,717	-	-	-	-	-	(5,554)	32,927
PAID	37,751	-	-	-	-	-	-	(37,751)	-
PRA	-	-	-	-	-	-	-	1,500	1,500
Timing Difference	-	(26,717)	36,228	2,338	14,053	(82)	(12)	-	25,808
									-
<b>Total</b>	<b>49,515</b>	<b>-</b>	<b>74,984</b>	<b>11,057</b>	<b>14,837</b>	<b>-</b>	<b>-</b>	<b>(41,835)</b>	<b>108,558</b>

## 5. CAPITAL ASSET ACTIVITY

### A. PRIMARY GOVERNMENT

Capital Asset activity for the year ended June 30 was as follows:

Governmental Activities:	(Amounts in Millions of USD)			
	Beginning Balance	Increases	Decreases	Ending Balance
<u>Capital assets not being depreciated:</u>				
Land	818	11	-	829
Fine Arts	1	-	-	1
Construction In Process	36	16	(9)	43
Total capital assets not being depreciated	855	27	(9)	873
<u>Capital assets being depreciated:</u>				
Buildings	2,123	36	-	2,159
Other Improvements	339	9	-	348
Equipment	494	45	(24)	515
Infrastructure	1,576	93	-	1,669
Intangibles	13	9	-	22
Transit	292	-	-	292
Total capital assets being depreciated	4,837	192	(24)	5,005
<u>Less accumulated depreciation for:</u>				
Buildings	(1,388)	(63)	-	(1,451)
Other Improvements	(244)	(9)	-	(253)
Equipment	(384)	(27)	20	(391)
Infrastructure	(1,132)	(42)	-	(1,174)
Intangibles	(1)	(2)	-	(3)
Transit	(229)	(4)	-	(233)
Total accumulated depreciation	(3,378)	(147)	20	(3,505)
Total capital assets being depreciated, net	1,459	45	(4)	1,500
Governmental activities capital assets, net	2,314	72	(13)	2,373

\* Note that the beginning balances of the accumulated depreciation for "Other Improvements" and "Equipment" have been adjusted by \$18 million. This is due to an error in the prior year table.

	(Amounts in Millions of USD)			
Business-type activities:	Beginning Balance	Increases	Decreases	Ending Balance
<u>Capital assets not being depreciated:</u>				
Land	153	3	-	156
Construction In Process	856	338	(467)	728
Total capital assets not being depreciated	1,009	341	(467)	884
<u>Capital assets being depreciated:</u>				
Buildings	3,150	251	(8)	3,393
Other Improvements	331	19	-	350
Equipment	133	26	(21)	138
Intangible Assets	14	1	-	15
Infrastructure	3,342	232	(95)	3,479
Total capital assets being depreciated	6,970	529	(124)	7,375
<u>Less accumulated depreciation for:</u>				
Buildings	(1,751)	(96)	5	(1,842)
Other Improvements	(163)	(14)	-	(177)
Equipment	(108)	(7)	2	(112)
Intangible Assets	(8)	(1)	-	(9)
Infrastructure	(1,850)	(89)	42	(1,897)
Total accumulated depreciation	(3,880)	(207)	49	(4,038)
Total capital assets being depreciated, net	3,090	322	(75)	3,338
Business-type activities capital assets, net	4,099	664	(541)	4,221

Depreciation expense was charged to the programs of the primary government as follows:

(Amounts in Millions of USD)

**Governmental Activities:**

Economic Development	2
Transportation:	
Streets & Highways	43
Mass Transit	4
Judiciary and Law Enforcement:	
Police	11
Prisons	6
Courts	1
Conservation of Health:	
Health Services	3
Housing and Neighborhood Development	0
Cultural and Recreational:	
Recreation	12
Parks	11
Libraries and Museums	8
Improvements to General Welfare:	
Social Services	1
Service to Property:	
Fire	7
General Management & Support	38
Total Governmental Activities	147

(Amounts in Millions of USD)

**Business-Type Activities:**

Water and Sewer	102
Aviation	<u>102</u>
Total Business Type Activities	<u>204</u>

**B. DISCRETELY PRESENTED COMPONENT UNITS**

The following schedule reflects the combined activity in capital assets for the discretely presented component units for the year ended June 30.

(Amounts in Millions of USD)

<b>Governmental Activities:</b>	<b><u>Beginning Balance</u></b>	<b><u>Increases</u></b>	<b><u>Decreases</u></b>	<b><u>Ending Balance</u></b>
<u>Capital assets not being depreciated:</u>				
Land	130.2	0.2	(1.0)	129.4
(1) Construction In Process	<u>20.7</u>	<u>44.2</u>	<u>(5.9)</u>	<u>59.0</u>
Total capital assets not being depreciated	150.9	44.4	(6.9)	188.4
<u>Capital assets being depreciated:</u>				
Buildings	1,753.2	4.5	(9.0)	1,748.7
Other Improvements	1,221.8	17.3	(15.5)	1,223.6
Intangible Assets	50.3	3.3	-	53.6
(2) (3) Personal Property & Equipment	<u>241.7</u>	<u>21.5</u>	<u>(29.9)</u>	<u>233.3</u>
Total capital assets being depreciated	3,267.0	46.6	(54.4)	3,259.2
<u>Less accumulated depreciation for:</u>				
Buildings	(665.4)	(31.1)	8.4	(688.1)
Other Improvements	(794.0)	(51.9)	12.7	(833.2)
Intangible Property	(41.3)	(2.4)	-	(43.7)
(2) (3) Personal Property & Equipment	<u>(187.6)</u>	<u>(17.3)</u>	<u>28.3</u>	<u>(176.6)</u>
Total accumulated depreciation	<u>(1,688.3)</u>	<u>(102.7)</u>	<u>49.4</u>	<u>(1,741.6)</u>
Total capital assets being depreciated, net	1,578.7	(56.1)	(5.0)	1,517.6
Capital assets, net	<u>1,729.6</u>	<u>(11.7)</u>	<u>(11.9)</u>	<u>1,706.0</u>

- (1) The beginning balance for CIP was adjusted to reflect a \$0.1 million prior period adjustment to include FY 2015 capital grant expenditures.
- (2) The beginning balances for Personal Property and related Accumulated Depreciation have been adjusted by (\$0.6) million and \$0.6 million respectively to reflect the reclassification of Print Shop Personal Property and Accumulated Depreciation from Governmental Activities to Business-Type Activities.
- (3) The beginning balances for Machinery & Equipment and related Accumulated Depreciation have been adjusted by \$0.8 million and (\$0.8) million respectively to reflect re-establishment of items erroneously deleted in Fiscal Year 2015.



	(Amounts In Millions of USD)			
Business-type Activities:	Beginning			Ending
	Balance	Increases	Decreases	Balance
<u>Capital assets not being depreciated:</u>				
Land	46	2	-	48
Fine Arts	(9)	-	-	(9)
Construction In Process	91	103	(94)	100
Total capital assets not being depreciated	127	105	(94)	139
<u>Capital assets being depreciated:</u>				
Buildings	710	4	-	714
Other Improvements	25	1	(2)	24
Equipment	493	47	-	540
Infrastructure	1,686	73	(6)	1,753
Total capital assets being depreciated	2,914	125	(8)	3,031
<u>Less accumulated depreciation for:</u>				
Buildings	(317)	(16)	-	(333)
Other Improvements	(39)	(3)	1	(41)
Equipment	(209)	(18)	(1)	(228)
Infrastructure	(809)	(38)	5	(842)
Total accumulated depreciation	(1,374)	(75)	5	(1,444)
Total capital assets being depreciated, net	1,540	50	(3)	1,587
Capital assets, net	1,667	155	(97)	1,726

## 6. NOTES PAYABLE

The Aviation Fund established a commercial paper (CP) program, which closed on January 1, 2013, in the amount of \$350 million to provide funding for capital projects currently approved by the airlines. CP is a short-term financing tool with a maximum maturity of 270 days. The Philadelphia International Airport's CP Program will enable projects to be financed on an as-needed basis; lower the Airport's cost of borrowing, as amounts drawn can be closely matched to capital cash flow requirements; and limit negative arbitrage during the construction period for projects. CP Notes will be "rolled over" until long-term bonds are issued to refund the outstanding commercial paper. There were \$189.9 million notes outstanding at June 30, 2016.

Pursuant to a contract between the City and the United States Department of Housing and Urban Development (HUD), the City borrows funds through the HUD Section 108 loan program for the purpose of establishing loan pools to finance qualifying businesses and specific development projects. These funds are placed in custodial accounts established by the Philadelphia Industrial Development Corporation (PIDC), as designee of the City, and are being administered on behalf of the City by PIDC. While the City is the primary borrower, PIDC, acting as the City's designee, makes the repayments on the City's HUD Section 108 Notes Payable. Loan repayments and investment proceeds from un-loaned funds are used to repay the Notes Payable. If there is a deficiency in these resources, the City authorizes PIDC to use Community Development Block Grant (CDBG) program income funds on hand at PIDC to repay the Notes Payable. From fiscal year 2006 through 2016, \$12.8 million of CDBG program income funds had been used to repay the debt. Collateral for repayment of the HUD Section 108 loans includes future CDBG entitlements due to the City from HUD.

Through the end of the fiscal year, HUD had disbursed \$262.1 million in loans to PIDC. As of June 30, 2016, there was \$80.4 million in outstanding HUD Section 108 Notes Payable. In connection with this Notes Payable, a corresponding receivable due from PIDC has been recorded under Other Assets on the Governmental Activities Statement of Net Position. Scheduled repayments of the HUD Section 108 Notes Payable for the next five years and thereafter as of June 30, 2016 are as follows:

<u>Calendar Year</u>	<u>Amount</u>
2016	10,175,000
2017	10,820,000
2018	11,535,000
2019	3,350,000
2020	6,615,000
Thereafter	37,893,000
Total	<u>\$ 80,388,000</u>

**PGW**, pursuant to the provisions of certain ordinances and resolutions, may sell short-term notes in a principal amount which, together with the interest thereon, will not exceed \$150 million outstanding at any one time. These notes are intended to provide additional working capital. They are supported by an irrevocable letter of credit and a subordinated security interest in the **PGW**'s revenues. There was \$71.0 million in notes outstanding at year-end (August 31, 2016).

**PPA:**

On January 29, 2015, The Authority borrowed \$6,000,000 for the Philadelphia Airport Parking Garage Project in anticipation of a future bond financing. The structure of the loan is a tax-exempt bond anticipation note to be paid over a two year period at a fixed interest rate of 1.017%. The balance of the note payable at March 31, 2016 is \$5,400,000.

On March, 31 2016, The Authority borrowed \$15,000,000 for the Philadelphia Airport Parking Garage in anticipation of a future bond financing. The structure of the loan is a tax-exempt bond anticipation note to be paid over a two year period at a variable interest rate equal to 67% of 1 month LIBOR Rate plus 0.60% (60 basis points). The balance of the note payable at March 31, 2016 is \$15,000,000.

The aggregate annual principal and sinking fund payments of debt at March 31, 2016 are as follows:

<u>Notes Payable</u>					
<u>Year Ending</u> <u>March 31</u>	<u>Revenue</u> <u>Bonds</u> <u>Principal</u> <u>Amount</u>	<u>Revenue</u> <u>Bonds</u> <u>Interest</u> <u>Amount</u>	<u>Principal</u> <u>Amount</u>	<u>Interest</u> <u>Amount</u>	<u>Total</u>
2017	13,170,000	6,790,140	2,100,000	178,807	22,238,947
2018	13,800,000	6,129,942	18,300,000	164,627	38,394,569
2019	14,095,000	5,475,584			19,570,584
2020	14,605,000	4,801,471			19,406,471
2021	15,210,000	4,070,640			19,280,640
2022-2026	56,485,000	13,452,522			69,937,522
2027-2030	19,590,000	3,213,229			22,803,229
Total	146,955,000	43,933,528	20,400,000	343,434	211,631,962

7. DEBT PAYABLE

A. PRIMARY GOVERNMENT LONG-TERM DEBT PAYABLE

(1) Governmental Debt Payable

The City is subject to a statutory limitation established by the Commonwealth of Pennsylvania for bonded indebtedness (General Obligation Bonds) payable principally from property taxes. As of June 30, 2016 the statutory limit for the City is \$5.4 billion, the General Obligation Debt, net of deductions authorized by law, is \$1.8 billion; leaving a legal debt borrowing capacity of \$3.6 billion. Termination Compensation costs and Worker's Compensation claims are paid by whichever governmental fund incurs them. Indemnity claims are typically paid by the General Fund.

The following schedule reflects the changes in long-term liabilities for the fiscal year:

Long Term Debt Governmental Changes - Primary Government

(Amounts In Millions of USD)

	<u>Beginning Balance</u>	<u>Additions</u>	<u>Reductions</u>	<u>Ending Balance</u>	<u>Due Within One Year</u>
<b>Governmental Activity</b>					
Bonds Payable					
Term Bonds	681.7	28.6	(95.5)	614.8	72.8
Refunding Bonds	868.3	138.8	(163.4)	843.7	43.2
Serial Bonds	382.5	163.0	(15.2)	530.3	24.7
Add: Bond Premium	111.8	53.9	(26.8)	138.9	-
Less: Deferred Amounts					
Unamortized Insurance Expenses	(14.8)	-	2.2	(12.6)	-
Unamortized Discount	(1.8)	-	0.1	(1.7)	-
Total Bonds Payable	2,027.7	384.3	(298.6)	2,113.4	140.7
Obligations Under Lease & Service Agreements					
Pension Service Agreement	1,063.3	39.1	(104.9)	997.5	104.9
Neighborhood Transformation	190.7	-	(8.3)	182.4	7.7
One Parkway	37.0	-	(2.4)	34.6	2.5
Sports Stadium	290.0	-	(13.5)	276.5	13.7
Library	6.7	6.2	(6.7)	6.2	0.6
Cultural Corridor Bonds	108.0	89.2	(103.6)	93.6	4.4
City Service Agreement	299.8	-	-	299.8	-
PAID School District	43.3	-	(14.2)	29.1	14.4
Total Obligations Under Lease & Service Agreements	2,038.8	134.5	(253.6)	1,919.7	148.2
Other Long-term Liabilities					
Indemnity Claims	74.0	143.9	(147.5)	70.4	18.9
Worker's Compensation Claims	247.3	57.2	(60.2)	244.3	-
Termination Compensation Payable	212.2	53.5	(22.0)	243.7	31.5
Leases	12.9	-	(4.2)	8.7	4.3
Total Other Long-term Liabilities	546.4	254.6	(233.9)	567.1	54.7
Net Pension and OPEB Liability					
Net Pension Liability	5,125.3	486.6	-	5,611.9	-
OPEB Liability	266.3	30.2	-	296.5	-
Total Net Pension and OPEB Liability	5,391.6	516.8	-	5,908.4	-
Governmental Activity Long-term Liabilities	10,004.5	1,290.2	(786.1)	10,508.6	343.6

In addition, both blended component units have debt that is classified on their respective balance sheets as General Obligation debt payable. The following schedule summarizes the General Obligation Bonds outstanding for the City, the PMA and PICA:

(Amounts in Millions of USD)

		Interest							
		<u>Rates</u>				<u>Principal</u>			<u>Due Dates</u>
Governmental Funds:									
City	3.000	%	to	6.500	%	1,505.6	Fiscal	2017	to 2042
PMA	1.250	%	to	6.660	%	217.1	Fiscal	2017	to 2044
PICA	4.000	%	to	5.000	%	<u>266.1</u>	Fiscal	2017	to 2023
						<u>1,988.8</u>			

- In July 2015, the City issued \$138.8 million of General Obligation Refunding Bonds Series 2015A. The total proceeds were \$157.0 million (including a premium of \$18.2 million). The proceeds of the sale were used to refund the Series 2006, 2008B, and 2011 bonds. The interest rates of the Bonds that were refunded ranged from 4.75% to 5.875%. The interest rates of the newly issued bonds ranged from 4% to 5%. The transaction resulted in a total savings to the City of \$15.6 million over the next 17 years. The difference between the present value of the debt service payments on the old debt versus the new debt (economic gain) was \$13.1 million.
- In September 2015, the City issued \$191.6 million of General Obligation Bonds Series 2015B. The 2015B bonds were issued for the purpose of funding the City's capital projects and paying the costs relating to the issuance of the 2015B bonds. The total proceeds of the bonds were \$211.3 million (which includes a premium of \$19.7 million). The interest rates for the bonds range from 2.0% to 5.0%.
- In February 2016, PAID issued \$95.4 million of City Service Agreement Revenue Refunding Bonds Series 2016A and 2016B.
  - a. The total proceeds of the 2016A bonds were \$104.6 million (which includes a premium of \$15.4 million). The 2016A Bonds were issued to partially refund \$99.5 million of the Series 2006A Bonds and to pay the costs of issuing the 2016A Bonds. The interest rates for the 2016A Bonds range from 4.0% to 5.0%. The interest rates of the refunded bonds range from 4.0% to 5.0%. The transaction resulted in a total savings to the City of \$13.31 million over the next 16 years. The economic gain on the transaction was \$10.10 million, calculated on a present value basis.
  - b. The total proceeds of the 2016B bonds were \$6.8 million (which includes a premium of \$0.6 million). The 2016B Bonds were issued to refund \$6.7 million of the Series 2005 Bonds and to pay the costs of issuing the 2016B Bonds. The interest rates for the 2016B Bonds range from 3.0% to 4.0%. The interest rates of the refunded bonds range from 3.8% to 4.3%. The transaction resulted in a total savings to the City of \$0.8 million over the next 9 years. The economic gain on the transaction was \$0.7 million, calculated on a present value basis.
- The City has General Obligation Bonds authorized and un-issued at year-end of \$385.7 million for Governmental Funds.

The debt service through maturity for the Governmental GO Debt is as follows:

(Amounts In Millions of USD)

Fiscal Year	City Fund		Blended Component Units			
	General Fund		PMA		PICA	
	Principal	Interest	Principal	Interest	Principal	Interest
2017	67.9	74.2	20.7	11.0	52.1	13.3
2018	70.8	70.8	28.0	9.8	45.4	10.7
2019	74.3	67.2	13.4	8.9	38.8	8.4
2020	76.6	63.5	4.4	8.4	40.5	6.4
2021	69.9	59.9	4.7	8.2	32.9	4.4
2022-2026	400.8	241.6	27.3	36.9	56.4	3.9
2027-2031	411.8	137.7	32.1	28.6	-	-
2032-2036	251.2	48.2	39.2	19.3	-	-
2037-2041	72.6	12.5	36.1	7.1	-	-
2042-2046	9.7	0.3	11.2	0.9	-	-
Totals	1,505.6	775.9	217.1	139.1	266.1	47.1

The debt service through maturity for Lease and Service Agreements is as follows:

(Amounts In Millions of USD)

**Lease & Service Agreements**

Fiscal Year	Pension Service Agreement		Neighborhood Transformation		One Parkway		Sports Stadium	
	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest
	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest
2017	99.7	35.0	7.7	9.1	2.5	1.6	13.7	11.2
2018	93.4	41.3	8.1	8.7	2.6	1.5	14.1	10.7
2019	87.5	47.3	9.8	8.3	2.7	1.4	14.5	10.0
2020	81.9	52.8	10.3	7.8	2.8	1.2	15.3	9.3
2021	51.2	48.6	10.8	7.3	3.0	1.1	16.0	8.7
2022-2026	137.8	222.6	58.7	28.3	17.1	3.4	90.9	32.8
2027-2031	446.0	58.1	77.0	11.9	3.9	0.2	112.0	11.9
2032-2036	-	-	-	-	-	-	-	-
Totals	997.5	505.7	182.4	81.4	34.6	10.4	276.5	94.6

Fiscal Year	Central Library		Cultural Corridors		City Service Agreement		PAID School District	
	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest
	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest
2017	0.6	0.3	4.4	6.1	-	11.7	14.4	0.5
2018	0.6	0.2	4.2	4.2	-	11.7	14.7	0.3
2019	0.6	0.2	4.4	4.1	-	11.8	-	-
2020	0.7	0.2	4.5	3.9	-	11.8	-	-
2021	0.7	0.1	4.7	3.7	23.2	11.8	-	-
2022-2026	3.0	0.2	27.7	14.5	276.6	36.6	-	-
2027-2031	-	-	35.5	6.7	-	-	-	-
2032-2036	-	-	8.2	0.2	-	-	-	-
Totals	6.2	1.2	93.6	43.4	299.8	95.4	29.1	0.8

(2) **Business Type Debt Payable**

The following schedule reflects changes in long-term liabilities for Business-Type Activities for the fiscal year:

(Amounts In Millions of USD)					
<b>Long Term Debt Business Changes - Business Type</b>	<b>Beginning Balance</b>	<b>Additions</b>	<b>Reductions</b>	<b>Ending Balance</b>	<b>Due Within One Year</b>
Bonds Payable					
Revenue Bonds	3,185.1	103.6	(303.7)	2,985.0	187.9
Add: Bond Premium	151.0	10.5	(18.5)	143.0	-
Total Bonds Payable	3,336.1	114.1	(322.2)	3,128.0	187.9
Indemnity Claims	4.7	10.5	(6.7)	8.5	-
Worker's Compensation Claims	27.5	4.7	(5.1)	27.1	-
Termination Compensation Payable	17.7	4.6	(3.0)	19.3	-
Arbitrage	0.3	-	(0.3)	-	-
Business-type Activity Long-term Liabilities	3,386.3	133.9	(337.3)	3,182.9	187.9
<b>Other long term liabilities reported on separate line in Exhibit I</b>					
Net Pension Liability	618.9	59.7	-	678.6	-
Total	4,005.2	193.6	(337.3)	3,861.5	187.9

The Enterprise Funds have no debt that is classified on their respective balance sheets as General Obligation debt payable as of June 30, 2016.

Also, the City has General Obligation Bonds authorized and un-issued at year-end of \$303.6 million. This includes \$211.6 million for the Enterprise Funds and \$92 million for PGW.

The City's Enterprise Funds have issued debt payable from the revenues of the particular entity. The following schedule summarizes the Revenue Bonds outstanding at year end:

(Amounts In Millions of USD)									
	<b>Interest Rates</b>				<b>Principal</b>		<b>Due Dates</b>		
Water Fund	0.060	%	to	5.750	%	1,860.3	Fiscal	2017	to 2046
Aviation Fund	2.000	%	to	5.375	%	1,124.7	Fiscal	2017	to 2040
Total Revenue Debt Payable						2,985.0			

- In September 2015, the City issued \$97.8 million of Airport Revenue Bonds Series 2015A Bonds to refund all of the outstanding Series 2005A Bonds in the amount of \$105.9 million and to pay the costs of issuing the Series 2015A Bonds. The total proceeds of the 2015A Bonds were \$108.2 million (which includes a premium of \$10.5 million). The interest rates of the bonds that were refunded ranged from 4.2% to 5.0%. The interest rates of the newly issued bonds range 4% to 5%. The transaction resulted in a total savings to the City of \$12.9 million over the next 20 years. The economic gain was \$9.3 million.
- In July 2010, the City of Philadelphia - Water Department received approval from the Pennsylvania State Infrastructure Financing Authority ("PENNVEST") for the Green Infrastructure Project (Series 2010B); bringing the total financing from PENNVEST to \$214.9 million. During fiscal year 2016, PENNVEST draw-downs totaled \$5.8 million. The funding is through low interest loans of 1.193% during the construction period and for the first five years of amortization (interest only payment is due during the construction period up to three years) and 2.107% for the remaining fifteen years. Individual loan information is as follows:

<u>Date</u>	<u>Series</u>	<u>Maximum Loan Amount</u>	<u>Amount Received Through 6/30/2016</u>	<u>Current Balance Outstanding 6/30/2016</u>	<u>Purpose</u>
Oct. 2009	2009B	42,886,030	29,432,930	21,464,949	Water Plant Improvements
Oct. 2009	2009C	57,268,193	46,699,887	35,528,947	Water Main Replacements
Mar. 2010	2009D	84,759,263	71,956,891	56,396,744	Sewer Projects
Jul. 2010	2010B	30,000,000	28,500,000	25,101,563	Green Infrastructure Project
Totals:		<u>214,913,486</u>	<u>176,589,708</u>	<u>138,492,203</u>	

The debt service through maturity for the Revenue Debt Payable is as follows:

(Amounts In Millions of USD)

<u>Water Fund</u>		<u>Aviation Fund</u>	
<u>Principal</u>	<u>Interest</u>	<u>Principal</u>	<u>Interest</u>
124.8	81.4	63.2	55.4
131.4	76.6	65.6	52.1
86.7	72.1	59.6	48.7
79.5	68.4	62.7	45.6
83.4	65.0	65.9	42.5
338.7	276.6	364.6	162.9
300.9	212.8	223.4	82.6
238.5	148.9	142.3	40.8
257.2	92.5	77.4	9.0
<u>219.2</u>	<u>25.1</u>		
<u>1,860.3</u>	<u>1,119.4</u>	<u>1,124.7</u>	<u>539.6</u>

### (3) Defeased Debt

As of the current fiscal year-end, the City defeased certain bonds by placing the proceeds of new bonds in irrevocable trusts to provide for all future debt service payments on the old bonds. Accordingly, the trust account assets and the liability for the defeased bonds are not included in the City's financial statements. At year end, bonds outstanding pertaining to the following funds are considered defeased.

(Amounts In Millions of USD)

#### Governmental Funds:

General Obligation Bonds 288.3

#### Enterprise Funds:

Water Fund Revenue Bonds 70.3  
358.5

**(4) Short -Term Borrowings**

The City has statutory authorizations to negotiate temporary loans for periods not to extend beyond the fiscal year. The City borrows funds to pay debt service and required pension contributions due before the receipt of the real estate taxes. The City borrowed and repaid \$175 million in Tax Revenue Anticipation Notes by June 2016 plus interest. In accordance with statute, there are no temporary loans outstanding at year-end.

(Amounts In Millions of USD)

**Tax Revenue Anticipation Notes:**

Balance July 1, 2015	-
Additions	175.0
Deletions	(175.0)
Balance June 30, 2016	-

**(5) Arbitrage Liability**

The City has several series of General Obligation and Revenue Bonds subject to federal arbitrage requirements. Federal tax legislation requires that the accumulated net excess of interest income on the proceeds of these issues over interest expense paid on the bonds be paid to the federal government at the end of a five-year period. At June 30, 2016, the Aviation Fund had recorded liabilities of \$546.08

**(6) Derivative Instruments**

Beginning in FY 2010, the City of Philadelphia adopted the provisions of Governmental Accounting Standards Board (GASB) Statement No. 53, *Accounting and Financial Reporting for Derivative Instruments*. The fair value balances and notional amounts of derivative instruments outstanding at June 30, 2016, classified by type, and the changes in fair value of such derivatives are as follows:

(amounts in thousands)

	<u>Changes in Fair Value</u>		<u>Fair Value at June 30, 2016</u>		
	<u>Classification</u>	<u>Amount</u>	<u>Classification</u>	<u>Amount</u>	<u>Notional</u>
<u>Governmental Activities</u>					
Cash Flow Hedges:					
Pay fixed interest rate swaps	Deferred Outflow	(10,247)	Debt	(32,125)	100,000
	Deferred Outflow	(5,271)	Debt	(22,826)	87,759
	Deferred Outflow	(1,756)	Debt	(7,607)	29,246
	Deferred Outflow	(5,029)	Debt	(21,616)	87,961
	Deferred Outflow	(1,675)	Debt	(7,235)	29,314
<u>Business Type Activities:</u>					
Cash Flow Hedges:					
Pay fixed interest rate swaps	Deferred Outflow	186	Debt	(16,039)	121,400
	Deferred Outflow	1,781	Debt	(1,508)	35,325
	Deferred Outflow	(9,461)	Debt	(50,611)	225,520



The following table displays the objective and terms of the City's hedging derivative instruments outstanding at June 30, 2016, along with the credit rating of the associated counterparty.

(amounts in thousands of USD)

<u>Agency</u>	<u>Type</u>	<u>Objective</u>	<u>Notional Amount</u>	<u>Effective Date</u>	<u>Maturity Date</u>	<u>Terms</u>	<u>Counterparty Credit Rating</u>
City GO (a)	Pay Fixed Interest Rate Swap	Hedge changes in cash flow on the 2009 Series B bonds	100,000	12/20/2007	8/1/2031	City pays 3.829%; receives SIFMA Municipal Swap Index	Aa3/AA-
City Lease PAID (b)	Pay Fixed Interest Rate Swap	Hedge changes in cash flow on the 2007 Series B bonds	87,759	10/25/2007	10/1/2030	City pays 3.9713%; receives SIFMA Municipal Swap Index	Aa3/A+
City Lease PAID (e)	Pay Fixed Interest Rate Swap	Hedge changes in cash flow on the 2014 Series A bonds	87,961	5/14/2014	10/1/2030	City pays 3.62%; receives 70% 1MLIBOR	Aa3/A+
City Lease PAID (b)	Pay Fixed Interest Rate Swap	Hedge changes in cash flow on the 2007 Series B bonds	29,246	10/25/2007	10/1/2030	City pays 3.9713%; receives SIFMA Municipal Swap Index	Baa2/A-
City Lease PAID (e)	Pay Fixed Interest Rate Swap	Hedge changes in cash flow on the 2014 Series A bonds	29,314	5/14/2014	10/1/2030	City pays 3.62%; receives 70% 1MLIBOR	Aa3/A+
Airport (c)	Pay Fixed Interest Rate Swap	Hedge changes in cash flow on the 2005 Series C bonds	121,400	6/15/2005	6/15/2025	Airport pays multiple fixed swap rates; receives SIFMA Municipal Swap Index	Aa3/A+
Water (d)	Pay Fixed Interest Rate Swap	Hedge changes in cash flow on the 2005 Series bonds	35,325	5/4/2005	8/1/2018	City pays 4.53%; receives bond rate/68.5% 1 Month LIBOR	Baa2/A-

#### a. City of Philadelphia 2009B General Obligation Bond Swap

**Objective:** In December 2007, the City entered into a swap to synthetically refund all or a portion of several series of outstanding bonds. The swap structure was used as a means to increase the City's savings when compared with fixed-rate bonds at the time of issuance. The intention of the swap was to create a synthetic fixed-rate structure. On July 28, 2009, the City terminated approximately \$213.5 million of the swap, fixed out the bonds related to that portion and kept the remaining portion of the swap, as well as, the related bonds as variable rate bonds backed with a letter of credit. The City paid a swap termination payment of \$15.5 million to RBC.

**Terms:** The swap was originally executed with Royal Bank of Canada (RBC), commenced on December 20, 2007, and will terminate on August 1, 2031. Under the swap, the City pays a fixed rate of 3.829% and receives the SIFMA Municipal Swap Index. The payments are based on an amortizing notional schedule (with an original notional amount of \$313.5 million). The swap confirmation was amended and restated effective August 13, 2009 to reflect the principal amount of the 2009B bonds, with all other terms remaining the same. As of June 30, 2016, the swap had a notional amount of \$100 million and the associated variable rate bonds had a \$100 million principal amount. The bonds mature in August 2031.

**Fair Value:** As of June 30, 2016, the swap had a negative fair value of (\$29.93 million). The fair value reflects the effect of non-performance risk, which includes the credit risk. This means that the City would have to pay this amount to terminate the swap. The fair value of the swap was measured using the income approach and is categorized within Level 2 of the fair value hierarchy.

**Risk:** As of June 30, 2016, the City was not exposed to credit risk because the swap has a negative fair value. Should interest rates change and the fair value of the swap become positive, the City would be exposed to credit risk in the amount of the swap's fair value. The City is exposed to traditional basis risk should the relationship between SIFMA and the bonds change; if SIFMA resets at a rate below the variable rate bond coupon payments, the synthetic interest rate on the bonds will increase.

The swap includes an additional termination event based on credit ratings. The swap may be terminated by the City if the rating of RBC falls below Baa3 or BBB- or by RBC if the rating of the City falls below Baa3 or BBB-. There are 30-day cure periods to these termination events. However, because the City's swap payments are insured by Assured Guaranty Municipal Corp. (formerly FSA), no termination event based on the City's ratings can occur as long as Assured is rated at least A3 and A-.

As of June 30, 2016 the rates were:

<u>Term</u>	<u>Rates</u>
Interest Rate Swap	
Fixed payment to RBC under swap	Fixed 3.82900 %
Variable rate payment from RBC under swap	SIFMA (0.41000) %
Net interest rate swap payments	3.41900 %
Variable rate bond coupon payments	Weekly reset 0.42000 %
Synthetic interest rate on bonds	3.83900 %

*Swap payments and associated debt:* As of June 30, 2016, debt service requirements of the variable-rate debt and net swap payments for their term, assuming current interest rates remain the same, were as follows:

<u>Fiscal Year Ending</u>	<u>Variable Rate Bonds</u>		<u>Interest Rate</u>	
	<u>Principal</u>	<u>Interest</u>	<u>Swaps Net</u>	<u>Total Interest</u>
June 30				
2017	-	420,000	3,419,000	3,839,000
2018	-	420,000	3,419,000	3,839,000
2019	-	420,000	3,419,000	3,839,000
2020	-	420,000	3,419,000	3,839,000
2021	-	420,000	3,419,000	3,839,000
2022-2026	-	2,100,000	17,095,000	19,195,000
2027-2031	81,585,000	1,506,561	12,264,124	13,770,685
<u>2032</u>	<u>18,415,000</u>	<u>77,343</u>	<u>629,609</u>	<u>706,952</u>
Total:	100,000,000	5,783,904	47,083,733	52,867,637

**b. Philadelphia Authority for Industrial Development (PAID) 2007B and 2014A Swaps**

*Objective:* In October, 2007, **PAID** entered into two swaps to synthetically refund **PAID's** outstanding Series 2001B bonds. The swap structure was used as a means to increase **PAID's** savings when compared with fixed-rate bonds at the time of issuance. The intention of the swaps was to create a synthetic fixed-rate structure

*Terms:* The total original notional amount of the two swaps was \$289.7 million which matched the principal amount of the 2007B bonds issued. One swap, with a notional amount of \$217.3 million, was executed with JP Morgan Chase Bank. The other swap, with a notional amount of \$72.4 million was executed with Merrill Lynch Capital Services, Inc. Both swaps commenced on October 25, 2007 and will terminate on October 1, 2030. Under the swaps, **PAID** pays a fixed rate of 3.9713% and receives the SIFMA Municipal Swap Index. The payments are based on an amortizing notional schedule.

In May 2014, PAID fully refunded the 2007B-1 bonds with the 2014A bonds, a directly purchased note. The 2014As pay interest on a LIBOR-linked index. Concurrently, the two swaps were amended such that the floating rate index on the portions allocable to the 2007B-1 bonds were converted from SIFMA to the same LIBOR-based index as the 2014A bonds. One of the LIBOR-based swaps, with a notional amount of \$87.96 million, was documented under a separate trade confirmation with JP Morgan Chase Bank. The other LIBOR-based swap, with a notional amount of \$29.31 million, was documented under a separate trade confirmation with Merrill Lynch Capital Services, Inc. Under the LIBOR-based swaps, PAID pays a fixed rate of 3.62% and 3.632% (to JPMorgan and Merrill Lynch, respectively), and receives 70% of 1-month LIBOR. The payments are based on an amortizing notional schedule.

In July 2014, PAID refunded the 2007B-4 bonds, and terminated the allocable portions of the SIFMA-based swaps. PAID terminated \$41.56 million of notional of the JP Morgan SIFMA-based swap and \$13.84 million of notional of the Merrill Lynch SIFMA-based swap, representing the 2015-2018 maturities of each, and paid a total termination payment of \$5.56 million. Costs to finance this termination payment were more than offset by refund-

ing savings generated on the bonds, so the City will receive positive cash-flow savings from the transaction in every fiscal year that the bonds are outstanding.

As of June 30, 2016, the swaps together had a notional amount of \$234.3 million which matched the principal amount of the associated variable rate bond deals. Payments under these swaps are lease rental obligations of the City.

**Fair Value:** As of June 30, 2016, the SIFMA-based swap with JP Morgan Chase Bank had a negative fair value of (\$21.70 million), the SIFMA-based swap with Merrill Lynch Capital Services, Inc. had a negative fair value of (\$7.23 million), the LIBOR-based swap with JP Morgan Chase Bank had a negative fair value of (\$20.53 million) and the LIBOR-based swap with Merrill Lynch Capital Services had a negative fair value of (\$6.87 million). This means that **PAID** would have to pay these amounts to terminate the swaps. The fair values reflect the effect of non-performance risk, which includes the credit risk. The fair values of the swaps were measured using the income approach and are categorized within Level 2 of the fair value hierarchy.

**Risks:** As of June 30, 2016, **PAID** was not exposed to credit risk because the swaps had a negative fair value. Should interest rates change and the fair value of the swaps become positive, **PAID** would be exposed to credit risk in the amount of the swaps' fair value. The City is subject to traditional basis risk on the SIFMA-based swaps should the relationship between SIFMA and the bonds change; if SIFMA resets at a rate below the variable rate bond coupon payments, the synthetic interest rate on the bonds will increase.

The swaps include an additional termination event based on credit ratings. The swaps may be terminated by **PAID** if the rating of the respective counterparty on the swaps falls below Baa3 or BBB- or by the respective counterparties if the underlying rating on the associated bonds falls below Baa3 or BBB-. There are 30-day cure periods to these termination events. The City's swap payments are insured by FGIC

As of June 30, 2016, the rates for the JP Morgan SIFMA-based swap were:

<u>Term</u>	<u>Rates</u>	
Interest Rate Sw ap		
Fixed payment to JP Morgan under sw ap	Fixed	3.97130 %
Variable rate payment from JP Morgan under sw ap	SIFMA	(0.41000) %
Net interest rate sw ap payments		3.56130 %
Variable rate bond coupon payments	Weighted Average Weekly resets	0.40762 %
Synthetic interest rate on bonds		3.96892 %

As of June 30, 2016, the rates for the Merrill Lynch SIFMA-based swap were:

<u>Term</u>	<u>Rates</u>	
Interest Rate Sw ap		
Fixed payment to JP Morgan under sw ap	Fixed	3.97130 %
Variable rate payment from JP Morgan under sw ap	SIFMA	(0.41000) %
Net interest rate sw ap payments		3.56130 %
Variable rate bond coupon payments	Weighted Average Weekly resets	0.40762 %
Synthetic interest rate on bonds		3.96892 %

As of June 30, 2016, the rates for the JP Morgan Libor-based swap were:

<u>Term</u>	<u>Rates</u>	
Interest Rate Sw ap		
Fixed payment to JP Morgan under sw ap	Fixed	3.62000 %
Variable rate payment from JP Morgan under sw ap	70% of 1-month LIBOR	(0.32554) %
Net interest rate sw ap payments		3.29447 %
Variable rate bond coupon payments	70% of 1-month LIBOR + fixed spread	0.32554 %*
Synthetic interest rate on bonds		3.62000 %

\*Excludes fixed spread, w hich is similar to the City's expected Letter of Credit costs on a comparable variable rate bond

As of June 30, 2016, the rates for the Merrill Lynch Libor-based swap were:

<u>Term</u>	<u>Rates</u>	
Interest Rate Sw ap		
Fixed payment to Merrill Lynch under sw ap	Fixed	3.63200 %
Variable rate payment from Merrill Lynch under sw ap	70% of 1-month LIBOR	(0.32554) %
Net interest rate sw ap payments		3.30647 %
Variable rate bond coupon payments	70% of 1-month LIBOR + fixed spread	0.32554 %*
Synthetic interest rate on bonds		3.63200 %

\*Excludes fixed spread, w hich is similar to the City's expected Letter of Credit costs on a comparable variable rate bond

**PAID Swap payments and associated debt.** As of June 30, 2016, debt service requirements of the variable-rate debt and net swap payments for their term, assuming the current interest rates remain the same, were as follows:

<u>Fiscal Year Ending</u>	<u>Variable Rate Bonds</u>		<u>Interest Rate</u>	
<u>June 30</u>	<u>Principal</u>	<u>Interest</u>	<u>Sw aps Net</u>	<u>Total Interest</u>
2017	-	858,712	8,034,001	8,892,713
2018	-	858,712	8,034,001	8,892,713
2019	-	858,712	8,034,001	8,892,713
2020	15,355,000	858,712	8,034,001	8,892,713
2021	16,015,000	802,435	7,507,452	8,309,886
2022-2026	90,905,000	3,080,130	28,817,018	31,897,149
<u>2027-2031</u>	<u>112,005,000</u>	<u>1,265,923</u>	<u>11,843,523</u>	<u>13,109,446</u>
Total:	234,280,000	8,583,336	80,303,995	88,887,332

**c. Philadelphia Airport Swap**

*Objective:* In April 2002, the City entered into a swaption that provided the City's Aviation Division (the Philadelphia Airport) with an up-front payment of \$6.5 million. As a synthetic refunding of its 1995 Bonds, this payment approximated the present-value savings as of April 2002, of refunding on June 15, 2005, based upon interest rates in effect at the time. The swaption gave JP Morgan Chase Bank the option to enter into an interest rate swap with the Airport whereby JP Morgan would receive fixed amounts and pay variable amounts.

*Terms:* JP Morgan exercised its option to enter into a swap on June 15, 2005, and the swap commenced on that date. Under the swap, the Airport pays multiple fixed swap rates (starting at 6.466% and decreasing over the life of the swap to 1.654%). The payments are based on an amortizing notional schedule (with an initial notional amount of \$189.5 million) and when added to an assumption for remarketing, liquidity costs and cost of issuance were expected to approximate the debt service of the refunded bonds at the time the swaption was entered into. The swap's variable payments are based on the SIFMA Municipal Swap Index. If the rolling 180-day average of the SIFMA Municipal Swap Index exceeds 7.00%, JP Morgan Chase has the option to terminate the swap.

As of June 30, 2016, the swap had a notional amount of \$121.4 million and the associated variable-rate bonds had a \$121.4 million principal amount. The bonds' variable-rate coupons are not based on an index but on remarketing performance. The bonds mature on June 15, 2025. The swap will terminate on June 15, 2025 if not previously terminated by JP Morgan Chase.

*Fair Value:* As of June 30, 2016, the swap had a negative fair value of (\$16.04 million). This means that if the swap terminated today, the Airport would have to pay this amount to JP Morgan Chase. The fair value of the swap was measured using the income approach and is categorized within Level 2 of the fair value hierarchy.

*Risk:* As of June 30, 2016, the Airport was not exposed to credit risk because the swap had a negative fair value. Should interest rates change and the fair value of the swap become positive, the Airport would be exposed to credit risk in the amount of the swap's fair value. In addition, the Airport is subject to basis risk should the relationship between SIFMA and the bonds change; if SIFMA resets at a rate below the variable bond rate, the synthetic interest rate will be greater than anticipated. The swap includes an additional termination event based on downgrades in credit ratings. The swap may be terminated by the Airport if JP Morgan's ratings fall below A- or A3, or by JP Morgan Chase if the Airport's ratings fall below BBB or Baa2. No termination event based on the Airport's ratings can occur as long as National Public Finance Guarantee Corporation (formerly MBIA) is rated at least A- or A3.

As of June 30, 2016, the rates were:

<u>Terms</u>	<u>Rates</u>	
Interest Rate Swap		
Fixed payment to JP Morgan under swap	Fixed-declining	4.11356 %
Variable rate payment from JP Morgan under swap	SIFMA	(0.41000) %
Net interest rate swap payments		3.70356 %
Variable rate bond coupon payments	Weekly resets	0.42000 %
Synthetic interest rate on bonds		4.12356 %

*Swap payments and associated debt:* As of June 30, 2016, debt service requirements of the variable-rate debt and net swap payments for their term, assuming current interest rates remain the same, were as follows.

<u>Fiscal Year Ending</u>		<u>Variable Rate Bonds</u>		<u>Interest Rate</u>	
<u>June 30</u>		<u>Principal</u>	<u>Interest</u>	<u>Swaps Net</u>	<u>Total Interest</u>
2017	\$	10,700,000	509,880	4,496,120	5,006,000
2018		11,400,000	464,940	3,875,380	4,340,320
2019		12,200,000	417,060	3,164,886	3,581,946
2020		13,000,000	365,820	2,457,956	2,823,776
2021		13,700,000	311,220	1,857,456	2,168,676
<u>2022-2026</u>		<u>60,400,000</u>	<u>644,700</u>	<u>2,907,632</u>	<u>3,552,332</u>
Total:		121,400,000	2,713,620	18,759,430	21,473,050

**d. City of Philadelphia, 2005 Water & Sewer Swap**

*Objective:* In December 2002, the City entered into a swaption that provided the City with an up-front payment of \$4.0 million. As a synthetic refunding of all or a portion of its 1995 Bonds, this payment approximated the present value savings, as of December 2002, of a refunding on May 4, 2005. The swaption gave Citigroup (formerly of Salomon Brothers Holding Company, Inc), the option to enter into an interest rate swap to receive fixed amounts and pay variable amounts.

*Terms:* Citigroup exercised its option to enter into a swap May 4, 2005, and the swap commenced on that date. Under the terms of the swap, the City pays a fixed rate of 4.53% and receives a variable payment computed as the actual bond rate or alternatively, 68.5% of one month LIBOR, in the event the average rate on the Bonds as a percentage of the average of one month LIBOR has exceeded 68.5% for a period of more than 180 days. Citigroup is currently paying 68.5% of one month LIBOR under the swap. The payments are based on an amortizing notional schedule (with an initial notional amount of \$86.1 million), and when added to an assumption for remarketing, liquidity costs and cost of issuance were expected to approximate the debt service of the refunded bonds at the time the swaption was entered into.

In May 2013, the City and Water Department converted the original variable rate bonds associated with the swap to an index-based rate, terminating the existing letter of credit in the process.

As of June 30, 2016, the swap had a notional amount of \$35.33 million and the associated variable-rate bond had a \$35.33 million principal amount. The bonds' variable-rate coupons are based on the same index as the receipt on the swap. The bonds mature on August 1, 2018 and the related swap agreement terminates on August 1, 2018.

*Fair value:* As of June 30, 2016, the swap had a negative fair value of (\$1.51 million). This means that the Water Department would have to pay this amount if the swap terminated. The fair value of the swap was measured using the income approach and is categorized within Level 2 of the fair value hierarchy.

*Risk:* As of June 30, 2016 the City is not exposed to credit risk because the swap had a negative fair value. Should interest rates change and the fair value of the swap become positive, the City would be exposed to credit risk in the amount of the swap's fair value. Since the City is now receiving 68.5% of one month LIBOR, and paying 68.5% of one month LIBOR plus a fixed spread, the City is no longer exposed to basis risk or tax risk. The swap includes an additional termination event based on credit ratings. The swap may be terminated by the City if the ratings of Citigroup or its Credit Support Provider fall below A3 and A-, or by Citigroup if the rating of the City's water and wastewater revenue bonds falls below A3 or A-. There are 30-day cure periods to these termination events. However, because the City's swap payments are insured by Assured Guaranty Municipal Corporation (formerly FSA), no termination event based on the City's water and wastewater revenue bond ratings can occur as long as Assured is rated at least A or A2.

As of June 30, 2016, the rates were:

<u>Terms</u>	<u>Rates</u>
Interest Rate Swap	
Fixed payment to Citi under swap	Fixed 4.53000 %
Variable rate payment from Citi under sv	68.5% of 1-month LIBOR (0.31856) %
Net interest rate swap payments	4.21144 %
Variable rate note coupon payments	68.5% of 1-month LIBOR + fixed spread 0.31856 %*
Synthetic interest rate on bonds	4.53000 %

\*Excludes fixed spread, which is similar to the City's expected Letter of Credit costs on a comparable variable rate bor.

Swap payments and associated debt: As of June 30, 2016, debt service requirements of the variable-rate debt and net swap payments for their term, assuming current interest rates remain the same, were as follows:

Fiscal Year Ending	Variable Rate Bonds		Interest Rate	
June 30	Principal	Interest	Swaps Net	Total Interest
2017	\$ 17,145,000.00	112,531.06	1,487,691.44	\$ 1,600,222.50
2018	18,015,000.00	57,914.07	765,639.93	823,554.00
2019	165,000.00	525.62	6,948.88	7,474.50
Total:	\$ 35,325,000.00	170,970.75	2,260,280.25	\$ 2,431,251.00

#### (7) Pension Service Agreement

In Fiscal 1999, the Philadelphia Authority for Industrial Development issued \$1.3 billion in Pension Funding Bonds. These bonds were issued pursuant to the provisions of the Pennsylvania Economic Development Financing Law and the Municipal Pension Plan Funding Standard and Recovery Act (Act 205). The bonds are special and limited obligations of **PAID**. The City entered into a Service Agreement with **PAID** agreeing to make yearly payments equal to the debt service on the bonds. **PAID** assigned its interest in the service agreement to the parties providing the financing and in accordance with GASB Interpretation #2, **PAID** treats this as conduit debt and does not include conduit debt transactions in its financial statements. The Pension Service Agreement of \$1.4 billion is reflected in the City's financial statements in Other Long Term Obligations. The net proceeds of the bond sale of \$1.3 Billion were deposited with the Municipal Pension Fund. The deposit of the proceeds reduced the Unfunded Actuarial Accrued Liability by that same amount. The deposit resulted in reductions to the City's actuarially determined pension plan payments. The fiscal year 2016 Pension Funding Bonds liability of \$997.5 million is reflected in the City's financial statements as another Long Term Obligation.

#### (8) Neighborhood Transformation Initiative Service Agreement

In March 2005, **PRA** issued additional City of Philadelphia Neighborhood Transformation Initiative (NTI) bonds to finance a portion of the initiative previously undertaken by the Authority and the City. Taxable Revenue Bonds Series 2005A issued in the amount of \$25.5 million are term bonds with interest rates ranging from 4.150% to 4.680% maturing through 2016. Qualified Revenue Bonds Series 2005B were issued in the amount of \$ 44.0 million, with interest rates ranging from 4.75% through 5% and mature through 2027. Revenue Bonds Series 2005C with an interest rate of 5% were issued for \$81.3 million and mature through 2031.

In Fiscal 2012, **PRA** issued \$91.3 million City of Philadelphia Neighborhood Transformation Initiative (NTI) Revenue Refunding Series 2012 Bonds. These bonds were issued to refund the City of Philadelphia Revenue Bonds, Series 2002A, originally issued in the aggregate principal amount of \$124 million. The bonds will be initially issued in the name of Cede & Co., as nominee for The Depository Trust Company (DTC), which will act as securities depository. The bonds are subject to optional redemption prior to maturity. Interest on the series bonds range from 2% to 5% and is payable on April 15 and October 15 each year until maturity in 2026.

In April 2015, PRA issued the Series 2015A, \$73.2 million and the Series 2015B, \$38.3 million - Revenue Refunding Bonds. The 2015A and 2015B Bonds were issued for the purpose of Refunding the 2005B and 2005C bonds and to pay for the cost of issuance of the 2015A & 2015B Bonds.

The fiscal year 2016 NTI Service Agreement liability of \$182.4 million is reflected in the City's financial statements as another Long Term Obligation.

**(9) Sports Stadium Financing Agreement**

In FY 2002, **PAID** issued \$346.8 million in Lease Revenue Bonds Series A and B of 2001 to be used to help finance the construction of two new sports stadiums. The bonds are special limited obligations of **PAID**. The City entered into a series of lease agreements as lessee to the Authority. The lease agreements are known as (1) the Veterans Stadium Sublease, (2) the Phillies' Prime Lease and (3) the Eagles Prime Lease. **PAID** assigned its interest in the lease agreements to the parties providing the financing and in accordance with GASB Interpretation #2, **PAID** treats this as conduit debt and therefore does not include these transactions on its financial statements.

In October, 2007 **PAID** issued Lease Revenue Refunding Bonds Series A and B of 2007. The proceeds from the bonds were used to refund the Series 2001B Stadium Bonds. **PAID** assigned its interest in the lease agreements to the parties providing the financing and in accordance with GASB Interpretation #2, **PAID** treats this as conduit debt and therefore does not include these transactions on its financial statements. In fiscal 2016, the Sports Stadium Financing Agreement liability of \$276.5 million is reflected in the City's financial statements as Other Long Term Liabilities.

**(10) Cultural and Commercial Corridors Program Financing Agreement**

In December, 2006, **PAID** issued \$135.5 million in Revenue Bonds, Series A and B. The proceeds from the bonds will be used to finance a portion of the cost of various commercial and cultural infrastructure programs and administrative and bond issuance cost. The City and **PAID** signed a service agreement, whereby **PAID** manages a portion of the funds and the City makes payments equal to the yearly debt service. **PAID** will distribute some of the proceeds and some will flow through the City's capital project fund. In accordance with GASB Interpretation #2, **PAID** treats this as conduit debt, and therefore, does not include these transactions in its statements. During fiscal year 2007, none of the proceeds were spent. In fiscal 2016 the liability of \$93.6 million is reflected in the City's financial statements as Other Long Term Liabilities.

**(11) City Service Agreement**

In December 2012, **PAID** issued City Service Agreement Refunding Revenue Bonds, Series 2012 in the amount of \$299.8 million. The bonds were issued as term Bonds with interest rates of 3.664% (\$42.2 million) and 3.964% (\$257.6 million). The term bonds have a maturity date of April 15, 2026. The bonds were issued to refund outstanding Pension Funding Bonds Series 1999B, fund interest on the Bonds through April 15, 2020, make a deposit to the City Retirement System and pay the cost of issuance of the Bonds. The bond is payable as set forth in the Service Agreement solely from revenues of the City. The debt service payments begin in 2021. The reacquisition price exceeded the net carrying value of the old debt by \$23.1 million. This amount is being netted against the new debt and amortized over the remaining life of the refunding debt. The portion of the Series 1999B Bonds that were refunded are considered defeased and the liability for those bonds has been removed from the Statement of Net Position. In fiscal year 2016, the liability of \$299.8 million is reflected in the City's financial statements as Other Long Term Liabilities.

**(12) School District**

In June 2014, **PAID** issued City Service Agreement Revenue Bonds, **Series 2014A** in the amount of \$27.2 million. The bonds shall bear interest at the LIBOR Interest Rate. The Calculation Agent will determine the LIBOR interest rate on each computation date and will become effective on the Libor index reset date next succeeding the computation date and will accrue each date during the rate period. The LIBOR interest rate will be rounded if necessary to the nearest one hundred-thousandth of a percentage point. The bonds were issued to provide additional operating funds for the School District of Philadelphia and pay the costs of issuance. The bonds have a maturity date of August 15, 2018. In fiscal year 2016, **PAID** School District liability of \$29.1 million is reflected in the City's financial statements as Other Long Term Liabilities. In October of 2014, **PAID** issued \$57.5 million of Lease Revenue Bonds. The proceeds of the sale were used to refund \$27.2 million of the **Series 2014A** bonds outstanding and provide the School District with \$30.0 million of new funding. The interest rate of the refunded bonds was variable. The interest rate of the newly issued bonds is 1.78%. The purpose of the transaction was to provide the school district with \$30.0 million of additional funding and not to generate any savings of the refunded portion of \$27.2. The newly issued bond have a maturity date of June 30, 2018.



(13) Net Pension Liability

Net Pension Liabilities at June 30, 2014 was \$404.7 million and \$49.7 million for the Governmental and Business Type Activities, respectively. As a result of a change in accounting principle (implementation of GASB 68) the beginning FY 2015 Net Position was adjusted by \$4.7 billion and \$579.7 million for Governmental and Business Type Activities respectively. During FY 2016, the Governmental Activities' Net Pension Liabilities (NPL) increased by \$484.9 million resulted in Net Pension Liability of \$5.6 Billion. During FY 2016, the Business Type Activities' NPL increased by \$59.6 million resulting in a Net Pension Liability of \$678.6 million

**B. COMPONENT UNIT LONG-TERM DEBT PAYABLE**

**(1) Governmental Debt Payable**

The **SDP** has debt that is classified as General Obligation debt payable. The General Obligation Bonds outstanding at year-end total \$2,989 million in principal, with interest rates from 1.25% to 6.765% and have due dates from 2017 to 2040. The following schedule reflects the changes in long-term liabilities for the **SDP**:

	<u>Beginning Balance</u>	<u>Additions</u>	<u>Reductions</u>	<u>Ending Balance</u>	<u>Due Within One Year</u>
<b>Governmental Activities</b>					
Bonds Payable	3,099.6	356.8	(467.1)	2,989.3	120.1
Add: Bond Premium	133.0	-	(12.3)	120.7	12.0
Less: Bond Discounts	(8.8)	-	0.6	(8.2)	(0.5)
Total Bonds Payable	3,223.8	356.8	(478.8)	3,101.8	131.6
Termination Compensation Payable (2)	192.1	12.7	(15.4)	189.4	34.2
Severance Payable	126.4	8.3	(8.1)	126.6	15.2
Other Liabilities	123.7	28.9	(37.9)	114.7	35.7
Incurred But Not Reported (IBNR) Payable (3)	15.8	2.2	-	18.0	18.0
Deferred Reimbursement	45.3	-	-	45.3	45.3
DHS Liability	1.0	-	(1.0)	-	-
OPEB Liability	1.2	0.5	-	1.7	-
Arbitrage Liability	3.4	-	(3.1)	0.3	0.3
NFS Federal Liability	0.8	-	(0.8)	-	-
PSERS Pension Liability (2)	2,980.4	239.3	(181.1)	3,038.6	-
Total	6,713.9	648.7	(726.2)	6,636.4	280.3

- (1) Termination (Compensated absences), severance, unemployment, workers' compensation, claims and judgments liabilities are accrued to the governmental funds to which the individual is charged. These liabilities are then liquidated by the General Fund. In addition, DHS, OPEB and Arbitrage liabilities are fully liquidated by the General Fund.
- (2) Restated beginning balance which was previously included in Print Shop as part of Governmental Activities; Beginning in fiscal year 2016, the District reclassified the Print Shop as a Business-Type Activities.
- (3) This liability was previously considered a long-term debt under Governmental Activities; beginning in fiscal year 2016, the District reclassified this liability as part of the new Self Insurance Health Care Internal Service Fund.

Debt service to maturity on the SDP's general obligation bonds and lease rental debt at year end is summarized as follows:

(Amounts In Thousands of USD)

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2017	120,063	135,968	256,031
2018	116,820	130,360	247,180
2019	140,420	124,719	265,139
2020	125,340	118,760	244,100
2021	130,330	112,746	243,076
2022-2026	750,280	470,302	1,220,582
2027-2031	941,770	310,807	1,252,577
2032-2036	559,290	99,075	658,365
2037-2040	105,020	13,682	118,702
Totals	2,989,333	1,516,419	4,505,752

**(2) Business Type Debt Payable**

Several of the City's Proprietary Type Component Units have issued debt payable from the revenues of the particular entity. The following schedule summarizes the Revenue Bonds outstanding at year end:

(Amounts In Millions of USD)

	<u>Interest Rates</u>				<u>Principal</u>		<u>Due Dates</u>			
PGW	2.00	%	to	5.25	%	837.8	Fiscal	2017	to	2040
PPA	3.00	%	to	5.25	%	147.0	Fiscal	2017	to	2030
CCP	2.00	%	to	6.25	%	73.9	Fiscal	2017	to	2028
Total Revenue Debt Payable						1,058.7				

The debt service through maturity for the Revenue Debt Payable of Component Units is as follows:

(Amounts in Millions of USD)

<u>Fiscal Year</u>	<u>Philadelphia Gas Works †</u>		<u>Philadelphia Parking Authority</u>		<u>Community College of Philadelphia</u>	
	<u>Principal</u>	<u>Interest</u>	<u>Principal</u>	<u>Interest</u>	<u>Principal</u>	<u>Interest</u>
2017	34.79	27.85	13.17	6.79	6.91	3.65
2018	47.77	32.16	13.80	6.13	6.81	3.26
2019	47.65	30.00	14.10	5.48	6.23	2.89
2020	48.43	27.64	14.61	4.80	6.52	2.61
2021	49.14	25.29	15.21	4.07	6.80	2.31
2022-2026	253.08	92.90	56.49	13.45	29.84	6.86
2027-2031	176.48	54.85	19.59	3.21	10.75	0.81
2032-2036	124.99	24.65	-	0.00	-	-
2037-2040	55.51	5.54	-	-	-	-
Totals	837.8	320.9	147.0	43.9	73.9	22.4

### (3) Defeased Debt

At year end, defeased bonds are outstanding from the following Component Units of the City as shown below:

(Amounts In Millions of USD)

Philadelphia Gas Works †	410.4
School District of Philadelphia	89.7
Total	<u>500.1</u>

† - Gas Works amounts are presented as of August 31, 2016

**PGW** assets pledged, primarily noncallable U.S. Government securities, had a market value of \$436.2 million at August 31, 2016, bearing interest on face value from 0% to 5.89%.

The investments held by the trustee and the defeased bonds are not recognized on **PGW's** balance sheets in accordance with the terms of the Indentures of Defeasance. The investments pledged for the redemption of the defeased debt have maturities and interest payments scheduled to coincide with the trustee cash requirements for debt service.

As in prior years, the School District defeased certain general obligation bonds by placing the proceeds of the refunding bonds in an irrevocable trust to provide for all future debt service payments on the refunded debt. As such, the trust account assets and liability for the defeased bonds are not included in the School District's financial statements.

This includes the following:

- (a) As of June 30, 2016, \$83.4 million of bonds outstanding are considered to be defeased and the liability has been removed from long-term liabilities.
- (b) In addition, as of June 30, 2016, the Defeasance Accounts from the Sale of SDP Property had \$6.3 million of bonds outstanding considered to be defeased and the liability was removed from long-term liabilities

### (4) Arbitrage

Federal arbitrage regulations are applicable to any issuer of tax-exempt bonds. It is necessary to rebate arbitrage earnings when the investment earnings on the bond proceeds from the sale of tax-exempt securities exceed the bond yield paid to investors. As of June 30, 2016, the arbitrage rebate calculation indicates a liability totaling \$308,817. Of this amount, \$266,070 related to the Series A and B Bonds of 2006 issued through the State Public School Building Authority is due payable on 60 days after December 28, 2016 while the remaining \$42,748 related to GOB Series 2010E, 2010F and 2010G. This year's liability is lower than last year's liability of \$693,425. The School District received a final rebate calculation for the GOB Series A and B Bonds of 2006 on January 11, 2017 in the amount of \$264,479 payable by February 28, 2017.

The School District has reserved as of June 30, 2016 \$308,817 under the fund balance of the Capital Projects Fund. In addition, a contingent liability for this amount has been accounted for in the governmental activities column of the government-wide statement of net position.

### (5) Derivative Instruments

#### a. PGW Interest Rate Swap Agreement

*Objective* - In January 2006, the City entered into a fixed rate payor, floating rate receiver interest rate swap to create a synthetic fixed rate for the Sixth Series Bonds. The interest rate swap was used to hedge interest rate risk.

*Terms* - The swaps have a maturity date of August 1, 2028 and require the City to pay a fixed rate of 3.6745% and receive a variable rate equal to 70.0% of one month LIBOR until maturity.

In August 2016, the underlying variable rate bonds maturing in FY 2017 through FY 2023 were refunded with fixed rate bonds and the related portions of the swaps, totaling \$102.7 million in notional amount, were terminated. PGW made a termination payment of \$13.9 million to partially terminate the swaps.

As of August 31, 2016, the swaps had a notional amount of \$122.8 million and the associated variable rate debt had a \$122.8 million principal amount, broken down by series as follows:

- The Series B swap had a notional amount of \$27.4 million and the associated variable rate bonds had a \$27.4 million principal amount.
- The Series C swap had a notional amount of \$27.2million and the associated variable rate bonds had a \$27.2 million principal amount.
- The Series D swap had a notional amount of \$40.8 million and the associated variable rate bonds had a \$40.8 million principal amount.
- The Series E swap had a notional amount of \$27.4 million and the associated variable rate bonds had a \$27.4 million principal amount.

The final maturity date for all swaps is on August 1, 2028.

*Fair Value* - As of August 31, 2016, the swaps had a combined negative fair value of approximately \$31.8 million. The fair values of the interest rate swaps were estimated using the zero coupon method and are classified as Level 2 within the fair value hierarchy. That method calculates the future net settlement payments required by the swap, assuming current forward rates are implied by the current yield curve for hypothetical zero coupon bonds due on the date of each future net settlement on the swaps.

*Risk* - As of August 31, 2016, the City is not exposed to credit risk because the swaps had a negative fair value. Should interest rates change and the fair value of the swaps become positive, the City would be exposed to credit risk in the amount of the swaps' fair value. The swaps include a termination event additional to those in the standard ISDA master agreement based on credit ratings. The swaps may be terminated by the City if the rating of the counterparty falls below A3 or A – (Moody's/S&P), unless the counterparty has: (i) assigned or transferred the swap to a party acceptable to the City; (ii) provided a credit support provider acceptable to the City whose obligations are pursuant to a credit support document acceptable to the City; or (iii) executed a credit support annex, in form and substance acceptable to the City, providing for the collateralization by the counterparty of its obligations under the swaps.

The swaps may be terminated by the counterparty if the rating on **PGW's** bonds falls below Baa2 or BBB (Moody's/S&P). However, because the City's swap payments are insured by Assured Guaranty Municipal Corporation, as long as Assured Guaranty Municipal Corporation is rated at or above A2 or A (Moody's/S&P), the termination event based on the City's ratings is stayed. At the present time, the rating for Assured Guaranty Municipal Corporation is at A2/AA – (Moody's/S&P).

The City is exposed to (i) basis risk, as reflected by the relationship between the rate payable on the bonds and 70.0% of one month LIBOR received on the swap, and (ii) tax risk, a form of basis risk, where the City is exposed to a potential additional interest cost in the event that changes in the federal tax system or in marginal tax rates cause the rate paid on the outstanding bonds to be greater than the 70.0% of one month LIBOR received on the swap.

The impact of the interest rate swaps on the financial statements for the year ended August 31, 2016 and 2015 is as follows (thousands of U.S. dollars):

Amount in Thousands

	Interest rate swap liability	Deferred outflow of resources
Balance, August 31, 2015	\$ 39,410	\$ 20,948
Change in fair value through August 31, 2016	\$ (7,604)	\$ (7,604)
Amortization of terminated hedge	\$ -	\$ 1,419
Balance, August 31, 2016	\$ 31,806	\$ 14,763

	Interest rate swap liability	Deferred outflow of resources
Balance, August 31, 2014	\$ 38,762	\$ 18,879
Change in fair value through August 31, 2015	\$ 648	\$ 648
Amortization of terminated hedge	\$ -	\$ 1,421
Balance, August 31, 2015	\$ 39,410	\$ 20,948

Because the original hedging relationship was terminated when the Sixth Series Bonds were refunded by the Eighth Series Bonds in 2009, there is a difference between the interest rate swap liability and the related deferred outflows of resources. The difference is being amortized on a straight-line basis into expense over the life of the hedge.

The interest rate swap liability is included in other non-current liabilities on the balance sheet.

There are no collateral posting requirements associated with the swap agreements.

#### b. School District of Philadelphia Swap Agreements

The School District adopted, in Fiscal Year 2010, the provisions of Governmental Accounting Standards Board (GASB) Statement No. 53, *Accounting and Financial Reporting for Derivative Instruments*. The fair value balances and notional amounts of derivative instruments outstanding at June 30, 2016, classified by type, and the changes in fair value of such derivative instruments for the year then ended as reported in the 2016 financial statements are as follows (amounts in thousands; debit (credit)):

Derivative Instruments:	Changes in Fair Value		Classification	Fair Value as of June 30, 2016	
	Classification	Amount		Amount	Notional Amount
Government Activities:					
Investment Derivatives:					
Pays-Variable					
Interest Rates Swaps	Investment Revenue	(8,725)	Investment	(664)	500,000

As of June 30, 2016, the School District determined that the pay variable interest rate swaps listed as investment derivatives do not meet the criteria for effectiveness as a hedging instrument. It is therefore reported within the investment revenue classification.

In February 2015, the GASB issued Statement 72, addressing the accounting and financial reporting issues related to fair value measurements. GASB 72 defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between swap counterparties at the measurement date, which includes the non-performance risk. The Statement is effective for reporting periods beginning after June 15, 2015. The School District adopted GASB 72 beginning Fiscal Year ended 2016.

The District's investments are valued at fair value using the following hierarchy:

- Level 1: Quoted prices for identical investments in active markets;
- Level 2: Observable inputs other than quoted market prices; and
- Level 3: Unobservable inputs

The lowest available level of valuation available is used for all investments.

Fixed income securities are valued based on the values for similar assets in an active market. Equity securities are valued based on published values for identical assets in an active market.

The income approach is used to obtain the fair value of the swaps, where future amounts (the expected swap cash flows) are converted to a single current (discounted) amount, using a rate of return that takes into account the relative risk of nonperformance associated with the cash flows, and time value of money. Where applicable under the income approach, the option pricing model technique, such as the Black-Derman-Toy model, or other appropriate option pricing model is used. This valuation technique is applied consistently across all the swaps.

Given the observability of inputs that are significant to the entire measurement, the fair values of the School District investments are categorized as follows:

	Level 1	Level 2	Level 3
Morgan Stanley Institutional Liquidity Fund Treasury			
Securities Portfolio	115,583,032		
Federal Home Loan Bank		16,374,333	
Federal National Mortgage Assoc		8,999,364	
SIFMA Swap		(644,033)	
<b>Total</b>	<b>115,583,032</b>	<b>24,729,664</b>	<b>-</b>

## 8. LEASE COMMITMENTS AND LEASED ASSETS

### A. CITY AS LESSOR

The City's operating leases consist of leases of airport facilities, recreation facilities, certain transit facilities and various other real estate and building sites. Rental income for all operating leases for the year was:

(Amounts In Thousands of USD)	<u>Primary Government</u>		<u>Component Units</u>
	Governmental Funds	Proprietary Funds	
Minimum Rentals	7,129	59,324	43,873
Additional Rentals	-	169,836	200
Sublease	10,908	-	2,712
<b>Total Rental Income</b>	<b>18,037</b>	<b>229,160</b>	<b>46,785</b>

Future minimum rentals receivable under non-cancelable operating leases are as follows:

<u>Fiscal Year Ending</u> <u>June 30</u>	<u>Primary Government</u>		<u>Component Units</u>
	Governmental Funds	Proprietary Funds	
2017	13,793	27,716	3,530
2018	12,550	6,652	2,710
2019	11,545	6,668	2,051
2020	11,178	6,280	5,105
2021	11,371	4,523	614
2021-2025	47,378	18,922	1,183
2026-2030	17,833	13,768	-
2031-2035	18,018	6,559	-
2036-2040	18,315	5,841	-
<b>Total</b>	<b>161,981</b>	<b>96,929</b>	<b>15,193</b>

**B. CITY AS LESSEE**

**1) OPERATING LEASES**

The City's operating leases consist principally of leases for office space, data processing equipment, duplicating equipment and various other items of property and equipment to fulfill temporary needs. Rental expense for all operating leases for the year was as follows:

(Amounts In Thousands of USD)	<u>Primary Government</u>		<u>Component Units</u>
	Governmental	Proprietary	
	<u>Funds</u>	<u>Funds</u>	
Minimum Rentals	183,825	46,139	5,440
Additional	-	-	73
Sublease	-	-	2,712
<u>Total Rental Expense</u>	<u>183,825</u>	<u>46,139</u>	<u>8,225</u>

At year end, the future minimum rental commitments for operating leases having an initial or remaining non-cancelable lease term in excess of one year are as follows:

<u>Fiscal Year Ending</u> <u>June 30</u>	<u>Primary Government</u>		<u>Component Units</u>
	Governmental	Proprietary	
	<u>Funds</u>	<u>Funds</u>	
2017	35,819	811	15,137
2018	29,663	352	12,584
2019	22,612	199	9,920
2020	20,860	199	9,739
2021	19,427	199	8,638
2022-2026	56,639	997	43,003
2027-2031	18,181	997	9,741
2032-2036	-	997	10,660
2037-2041	-	-	9,153
<u>Total</u>	<u>203,201</u>	<u>4,751</u>	<u>128,575</u>

**2) CAPITAL LEASES**

Capital leases consist of leased real estate and equipment from various component units. Future minimum rental commitments are as follows:

Future Minimum Capital Lease Payments

(Amounts In Thousands of USD)

<u>Fiscal Year Ending</u> <u>June 30</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2017	358,836	29,067	387,903
2018	272,897	19,651	292,548
2019	242,438	10,738	253,176
2020	127,917	3,168	131,085
2021	22,758	453	23,211
	<u>1,024,846</u>	<u>63,077</u>	<u>1,087,923</u>

## 9. DEFERRED COMPENSATION PLANS

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### A. PRIMARY GOVERNMENT

The City offers its employees a deferred compensation plan in accordance with Internal Revenue Code section 457. As required by the Code and Pennsylvania laws in effect at June 30, 2014, the assets of the plan are held in trust for the exclusive benefit of the participants and their beneficiaries. In accordance with GASB Statement No.32, *Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans*, the City does not include the assets or activity of the plan in its financial statements.

### B. COMPONENT UNITS

**PGW** offers its employees a deferred compensation plan (the Plan) created in accordance with Internal Revenue Service Code Section 457. The Plan, available to all **PGW** employees with at least 30 days of service, permits them to defer a portion of their salary until future years. **PGW** provides an annual 10.0% matching contribution of applicable wages that immediately vests to the employee. **PGW** contributed \$0.3 million in FY2016.

## 10. FUND BALANCE POLICIES

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Fund Balance of governmental funds is reported in various categories based on the nature of any limitations requiring the use of resources for specific purposes. GASB 54 provides more clearly defined fund balance categories to make the nature and extent of the constraints placed on a government's fund balance more transparent. The following classifications describe the relative strength of the spending constraints placed on the purpose for which resources can be used:

- **Non-Spendable Fund Balance** — Includes amounts that cannot be spent because they are either (a) not in spendable form, or (b) legally or contractually required to be maintained intact. The Permanent Funds (\$3.1 million) were non-spendable.
- **Restricted Fund Balance** — Includes amounts for which constraints have been placed on the use of resources which are either (a) externally imposed by creditors, grantors, contributors or laws or regulations of other governments, or (b) imposed by law through constitutional provisions or enabling legislation. The General Fund had a restricted fund balance of \$54.5 million at June 30, 2016. The fund balances in the following Special Revenue Funds were restricted: HealthChoices Behavioral Health (\$220.1 million); Grants Revenue (\$40.8 million); County Liquid Fuels (\$1.9 million); Special Gasoline Tax (\$35.2 million); Hotel Room Rental Tax (\$12.3 million); Car Rental Tax (\$6.4 million); Housing Trust (\$20.8 million); Acute Care Hospital Assessment (\$11.2 million); Departmental (\$10.7 million); Municipal Authority Administrative (\$0.2 million); PICA Administrative (\$25.5 million). The Debt Service Fund had a Restricted Fund Balance of (\$81.5 million) and entire fund balance of the Capital Improvement (\$133.1 million) funds was restricted. The Permanent Fund had a restricted fund balance of \$3.2 million at June 30, 2016.
- **Committed Fund Balance** — Includes amounts that can only be used for specific purposes pursuant to constraints imposed by an ordinance passed by Philadelphia's City Council. These amounts cannot be used for any other purpose unless the City Council removes or changes the ordinance that was employed when the funds were initially committed. The fund balances in the following Special Revenue Funds were committed: Riverview Residents (\$.03 million), Philadelphia Prisons (\$2.9 million), and Departmental (\$1.7 million).
- **Assigned Fund Balance** — Includes amounts that are constrained by government's intent to be used for a specific purpose but are neither restricted nor committed. The intent may be expressed by the Budget Director, other authorized department heads or their designees to which the Finance Director has granted the authority to assign amounts to be used for specific purposes. There is no prescriptive action to be taken by the authorized officials in removing or modifying the constraints imposed on the use of the assigned amounts. The General fund reported an assigned fund balance of \$78.01 million at June 30, 2016 which represents the encumbrance balance at the end of the reporting period.
- **Unassigned Fund Balance** — This classification is the residual fund balance for the General Fund. It also represents fund balance that has not been classified as assigned, committed or restricted or non-



spendable. The General Fund had a \$0.0 million unassigned fund balance at June 30, 2016. Within the Special Revenue Funds, the Grants Revenue fund had a negative fund balance of \$322.5 million and the Community Development fund had a negative fund balance of \$5.3 million at June 30, 2016.

To the extent that funds are available for expenditure in both the restricted and the other fund balance categories, except for the non-spendable category, funds shall be expended first from restricted amounts and then from the other fund balance categories amounts excluding non-spendable. To the extent that funds are available for expenditure in these other categories, except for the non-spendable fund balance, the order of use shall be: committed balances, assigned amounts, and lastly, unassigned amounts.

The table below presents a more detailed breakdown of the City's fund balances at June 30, 2016:

(Amounts In Thousands of USD)					
	HealthChoices				
	General	Behavioral	Grants	Other	Total
	Fund	Health	Revenue	Governmental	Governmental
	Fund	Fund	Fund	Funds	Funds
<b><u>Nonspendable:</u></b>					
Permanent Fund (Principal)	-	-	-	3,137	3,137
<b>Subtotal Nonspendable:</b>	-	-	-	3,137	3,137
<b><u>Restricted for:</u></b>					
Neighborhood Revitalization	-	-	18	-	18
Economic Development	-	-	-	12,279	12,279
Public Safety Emergency Phone System	-	-	40,813	-	40,813
Streets & Highways	-	-	-	37,115	37,115
Housing & Neighborhood Dev	-	-	-	20,767	20,767
Health Services	-	-	-	11,195	11,195
Behavioral Health	-	220,062	-	-	220,062
Parks & Recreation	-	-	-	790	790
Libraries & Museums	-	-	-	3,041	3,041
Intergovernmental Financing (PICA)	-	-	-	25,538	25,538
Intergovernmentally Financed Programs	-	-	-	-	-
Central Library Project	1,688	-	-	-	1,688
Stadium Financing	558	-	-	6,380	6,938
Cultural & Commercial Corridor Project	7,444	-	-	-	7,444
Capitalized Interest	44,764	-	-	-	44,764
Debt Service Reserve	-	-	-	81,469	81,621
Capital Projects	-	-	-	133,091	133,091
Trust Purposes	-	-	-	10,153	10,153
<b>Subtotal Restricted</b>	<b>54,454</b>	<b>220,062</b>	<b>40,831</b>	<b>341,970</b>	<b>657,317</b>
<b><u>Committed, reported in:</u></b>					
Social Services	-	-	-	30	30
Prisons	-	-	-	2,851	2,851
Parks & Recreation	-	-	-	1,663	1,663
<b>Subtotal Committed</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,544</b>	<b>4,544</b>
<b><u>Assigned, reported in:</u></b>					
Encumbrances	78,014	-	-	-	78,014
<b>Subtotal Assigned:</b>	<b>78,014</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>78,014</b>
<b><u>Unassigned Fund Balance:</u></b>					
	-	-	(322,495)	(5,309)	(327,804)
<b>Total Fund Balances</b>	<b>132,468</b>	<b>220,062</b>	<b>(281,664)</b>	<b>344,342</b>	<b>415,208</b>

## 11. INTERFUND TRANSACTIONS

During the course of normal operations, the City has numerous transactions between funds. These transactions are recorded as operating transfers and are reported as other financial sources (uses) in the Governmental Funds and as transfers in the Proprietary Funds. Some of the more significant transfers are: the PICA administrative fund collects a portion of the wage tax paid by City residents and transfers funds that are not needed for debt service and administrative costs to the general fund. Also, the general fund and the PICA administrative fund make transfers to the debt service funds for principal and interest payments.

Transfers between fund types during the year were:

Transfers To:						
(Amounts in Thousands of USD)	Governmental		Non major Governmental			Total
	General	Grants	Special	Debt	Capital	
			Revenue	Service	Improvement	
Transfers From:	General	Grants	Revenue	Service	Improvement	Total
General Fund	-	-	11,376	158,558	765	170,699
Grants Revenue Fund	24,116	-	1,433	4,428	1,904	31,881
Non major Special Rev. Fds	383,434	-	211	63,752	4,557	451,954
Permanent Funds	-	-	128	-	-	128
Water Fund	1,556	-	30,066	-	-	31,622
Total	409,106	-	43,214	226,738	7,226	686,284

## 12. RECONCILIATION OF GOVERNMENT-WIDE AND FUND FINANCIAL STATEMENTS

The governmental fund balance sheet (Exhibit III) includes reconciliation to the Net Position of Governmental Activities. One element of that reconciliation states that "Long Term Liabilities, including bonds payable, are not reported in the funds". The details of this difference are as follows:

(Amounts in Millions of USD)

Bonds Payable	2,113.4
Service Agreements	1,919.7
Employee Related Obligations	488.0
Indemnities	70.4
Leases	8.7
<b>Total Adjustment</b>	<b>4,600.2</b>

## 13. PRIOR PERIOD ADJUSTMENTS AND CUMULATIVE EFFECT OF CHANGE IN ACCOUNTING PRINCIPLE

### A. PRIMARY GOVERNMENT

The Water Fund's Net Position decreased by (\$22.0) million as a result of, (1) direct payments and cancelled projects of (\$18.6) million being carried in Construction In Progress (CIP) that should have been expensed in prior fiscal years when incurred; and (2) depreciation from CIP of (\$3.4) million that should have been transferred to fixed assets in previous fiscal years. The effect of the adjustment is reflected as a decrease to the Water & Sewer Net Position as of July 1, 2015 in the City's June 30, 2016 - Statement of Revenues, Expenses and Changes in Fund Net Position - Proprietary Funds, Exhibit VII.

### B. COMPONENT UNIT

**Philadelphia Parking Authority (PPA)**, adopted the GASB Statement No. 68, *Accounting and Financial Reporting for Pensions-an amendment of GASB Statement No. 27* for the year ending March 31, 2016.

The effect of this adoption decreased the PPA's net position at April 1, 2015 by \$119,539,479 for the recording of the PPA's net pension liability, and expanded note disclosures and required supplementary information. PPA did not restate the prior period as the earliest actuarial information under GASB 67 was not available to measure the net position as of April 1, 2014 since there is a 15 month lag between the measurement date and the financial statement date.

The **Community College of Philadelphia (CCP)**'s Net Position increased by \$109 thousand for an adjustment involving an increase to Accounts Receivable. The effect of the adjustment is reflected as an increase to **CCP's** Net Position as of July 1, 2015 in the City's June 30, 2016 Statement of Activities – Component Units, Exhibit XII.

In fiscal year 2016, the **PRA's** land inventories were retroactively adjusted to record the historical cost of all properties owned/held by the PRA. The adjustments were a result of the PRA's valuation project, which used a real estate expert to value these properties using a Hedonic Price Analysis model. As a result, a prior period adjustment was recognized to record the estimated historical land value. The PRA restated its land inventory balance at June 2015, increasing it by \$110,701,820. The restatement increased net position as of June 30, 2015 by \$110,701,820., as presented in the following table:

Net position as of June 30, 2015 (previously reported)	\$ 76,432,348
Prior period restatement - land inventory valuation change	<u>110,701,820</u>
Net Position as of June 30, 2015 (restated)	<u><u>\$ 187,134,168</u></u>

The **SDP's** beginning net position was increased by \$81,919. The capital assets adjustment involved: (1) an increase in Construction in Progress to record capital grants for Fiscal Year 2015 of \$81,918 and (2) an increase in Land by \$1 to record the 1967 acquisition cost of the Elverson lot.

For Fiscal Year 2016, the **SDP** changed its computation and restated its July 1, 2015 "Net Investment in Capital Assets" and "Unrestricted (Deficit)" based on a reevaluation of the accounting practices used to compute it.

"Net Investment in Capital Assets" decreased by \$172.0 million which was offset by a increase of the same amount to "Unrestricted (Deficit)". This adjustment related to Net Debt Related to Disposed Capital Assets (\$52.1) million and Adjustment to Cumulative Undercapitalized Expenditures for Non-Capitalized Amounts (\$119.9) million.

#### 14. NET POSITION RESTRICTED BY ENABLING LEGISLATION

The government-wide statement of net position reports \$1,275.7 million of restricted net position, of which \$87.9 million is restricted by enabling legislation as follows:

<i>(Amounts in Thousands of USD)</i>	<u>Restricted Net Position</u>	<u>Restricted by Enabling Legislation</u>
Capital Projects	254,617	
Debt Service	372,505	
Pension Oblig Bond Refunding Reserve	44,764	
Behavioral Health	220,062	
Neighborhood Revitalization	19	
Stadium Financing	558	
Central Library Project	1,688	
Cultural & Commercial Corridor Project	7,444	
Grant Programs	94,719	20,767
Rate Stabilization	205,761	
Libraries & Parks:		
Expendable	3,235	
Non-Expendable	3,137	
Educational Programs	-	
Other	67,182	67,182
Total	<u>1,275,691</u>	<u>87,949</u>

#### 15. FUND DEFICITS

- The Grants Revenue fund, which is a Special Revenue Fund, has a Fund Balance Deficit at year-end of \$281.7 million. The deficit was primarily caused due to the recording of reimbursed costs and corresponding revenues for services provided by the Department of Human Services to the grants fund, and the delay of billing and receiving reimbursements from the state.
- The Community Development Fund, which is a Special Revenue fund, has a Fund Balance Deficit at year-end of \$5.3 million.

### IV. OTHER INFORMATION

#### 1. PENSION PLANS

The City maintains two single employer defined benefit plans for its employees and several of its component units. The two plans maintained by the City are the City Plan and the Philadelphia Gas Works (PGW) Plan. In addition to the City, the three other quasi-governmental agencies that participate in the City Plan are the Philadelphia Parking Authority (PPA), the Philadelphia Municipal Authority (PMA), and the Philadelphia Housing Development Corporation (PHDC).

Effective with Fiscal Year 2015, the City implemented GASB Statement No. 68, *Accounting and Financial Reporting for Pensions – an amendment of GASB Statement No. 27*. This statement revises existing standards for measuring and reporting pension liabilities for pension plans. GASB Statement No. 68 defines a single employer as the primary government and its component units. All three quasi-governmental agencies that participate in the City Plan were determined to be component units of the City. Therefore, the City Plan meets the definition of a single employer plan.

The note disclosures and Required Supplementary Information required by GASB Statement No. 67, *Financial Reporting for Pension Plans – an amendment of GASB No. 25*, are presented in the separately issued audited financial statements of the City Plan and PGW Plan. Copies of these financial statements may be obtained by contacting the Director of Finance of the City of Philadelphia.

**A. PRIMARY GOVERNMENT**

**(1) City Plan**

**a. PENSION FUND DESCRIPTION**

**Plan Administration.** The Philadelphia Board of Pensions (the Pension Board) administers the City of Philadelphia Municipal Pension Fund (the Fund)- a single-employer defined benefit pension plan with a small but increasing defined contribution component, which provides pensions for all officers and employees of the City of Philadelphia (the City), as well as those of three quasi-governmental agencies (per applicable enabling legislation and contractual agreements). The Board was established by section 2-308 of the 1952 Philadelphia Home Rule Charter. Its actions in administering the Retirement System are governed by Title 22 of the Philadelphia Code.

The Board consists of nine voting members - four elected by the active members within the civil service, and the City's Controller, Solicitor, Managing Director, Personnel Director, and Director of Finance, who serves as the Chair.

Plan Membership. At July 1, 2015, the date of the most recent actuarial valuation, pension plan membership consisted of the following:

Actives	27,951
Terminated Vested	1,334
Disabled	4,016
Retirees	22,245
Beneficiaries	8,566
DROP	1,784
Total City Members	<u>65,896</u>
Annual Salaries	\$ 1,597,848,869
Average Salary per Active Member	\$ 57,166
Annual Retirement Allowances	\$ 719,580,951
Average Retirement Allowance	\$ 20,662

**Contributions.** Per Title 22 of the Philadelphia Code, members contribute to the Fund at various rates based on bargaining unit, uniform/non-uniform/elected/exempt status, and entry date into the Fund. Beginning July 1, 2015, members contributed at one of the following rates:

Employee Rates	Plan 67	Plan 87	Plan 10
Uniform	6.00%	5.00% or 6.00%	5.50%
Non-Uniform	3.75%, 4.25%, 5.62%, 6.00% or 6.50%	1.97%, 2.47%, 2.64%, 3.14%, 3.29%, 3.47% or 4.14%	3.16%
Elected Officials	N/A	8.48%, 9.11%, 9.48% or 10.11%	3.16%

Employer contributions are made by the City throughout each fiscal year (which ends June 30) and by three (3) quasi-governmental agencies on a quarterly basis. These contributions, determined by an annual actuarial valuation report (AVR), when combined with plan member contributions, are expected to finance the costs of benefits earned by plan members during the year, with an additional amount to finance any unfunded accrued liability.

Within the AVR, two contribution amounts are determined based upon two different sets of rules for determining the way the unfunded actuarial liability is funded.

The first method is defined in accordance with Act 205 and defines the Minimum Municipal Obligation (MMO), which is the City's minimum required contribution under Pennsylvania state law.

The second method is in accordance with the City's Funding Policy, which predates the Act 205 rules and calls for contributions that are greater than the MMO until the initial unfunded liability determined in 1984 is fully funded.

Under both funding methods there are two components: the normal cost and the amortized unfunded actuarial liability. The actuarial unfunded liability is the amount of the unfunded actuarial liability that is paid each year based upon the given or defined amortization periods. The amortization periods are different under the MMO and City's Funding Policy.

**City's Funding Policy:**

The initial July 1, 1985 unfunded actuarial liability (UAL) is amortized over 34 years ending June 30, 2019 with payments increasing at 3.3% per year, the assumed payroll growth. Other changes in the actuarial liability are amortized in level-dollar payments as follows:

- Actuarial gains and losses – 20 years beginning July 1, 2009. Prior gains and losses were amortized over 15 years.
- Assumptions changes – 15 years beginning July 1, 2010. Prior to July 1, 2010, assumption changes were amortized over 20 years.
- Plan changes for active members – 10 years.
- Plan changes for inactive members – 1 year.
- Plan changes mandated by the State – 20 years.

In fiscal year 2016, the City and other employers' contributions of \$660.2 million was less than the actuarially determined employer contribution (ADEC) of \$846.2 million. In the event that the City contributes less than the funding policy, an experience loss will be created that will be amortized in accordance with funding policy over 20 years.

The Schedule of Employer Contributions (based on the City's Funding Policy) is included as Required Supplemental Information and provides a 10-year presentation of the employer contributions.

**Minimum Municipal Obligation (MMO):**

For the purposes of the MMO under Act 205 reflecting the fresh start amortization schedule, the July 1, 2009 UAL was "fresh started" to be amortized over 30 years ending June 30, 2039. This is a level dollar amortization of the UAL. All future amortization periods will follow the City's Funding Policies as outlined above.

In fiscal year 2016, the City and other employers' contributions of \$660.2 million exceeded the Minimum Municipal Obligation of \$598.5 million.

The Schedule of Employer Contributions (based on the MMO Funding Policy) is included as Required Supplemental Information and provides a 10-year presentation of the employer contributions.

**b. BENEFITS**

The Fund provides retirement, disability, and death benefits according to the provisions of Title 22 of the Philadelphia Code. These provisions prescribe retirement benefit calculations, vesting thresholds, and minimum retirement ages that vary based on bargaining unit, uniform/non-uniform status, and entry date into the System.

Non-uniform employees may retire at either age 55 with up to 80% of average final compensation (AFC) or age 60 with up to either 100% or 25% of AFC, depending on entry date into the System. Uniform employees may retire at either age 45 with up to 100% of AFC or age 50 with up to either 100% or 35% of AFC, depending on entry date into the System. Survivorship selections may result in an actuarial reduction to the calculated benefit.

Members may qualify for service-connected disability benefits regardless of length of service. Service-connected disability benefits are equal to 70% of a member's final rate of pay, and are payable immediately without an actuarial reduction. These applications require approval by the Board.

Eligibility to apply for non-service-connected disability benefits varies by bargaining unit and uniform/non-uniform status. Non-service-connected disability benefits are determined in the same manner as retirement benefits, and are payable immediately.

Service-connected death benefits are payable to:

1. surviving spouse/life partner at 60% of final rate of pay plus up to 2 children under age 18 at 10% each of final rate of pay (maximum payout: 80%);
2. if no surviving spouse/life partner, up to 3 children under age 18 at 25% each of final rate of pay (maximum payout 75%); or
3. if no surviving spouse/life partner or children under age 18, up to 2 surviving parents at 15% each of final rate of pay (maximum payout 30%).

Non-service-connected deaths are payable as a lump sum payment, unless the deceased was either vested or had reached minimum retirement age for their plan, in which case the beneficiary(ies) may instead select a lifetime monthly benefit, payable immediately with an actuarial reduction.

A Pension Adjustment Fund (PAF) is funded with 50% of the excess earnings that are between 1% and 6% above the actuarial assumed earnings rate. Each year within sixty days of the end of the fiscal year, by majority vote of its members, the Board of Directors of the Fund (the Board) shall consider whether sufficient funds have accumulated in the PAF to support an enhanced benefit distribution (which may include, but is not limited to, a lump sum bonus payment, monthly pension payment increases, ad-hoc cost-of-living adjustments, continuous cost-of-living adjustments, or some other form of increase in benefits as determined by the Board) to retirees, their beneficiaries and their survivors. As of July 1, 2015, the date of the most recent actuarial valuation, there was \$38,198,762 in the PAF and the Board voted to make PAF distributions of \$30,004,292 during the fiscal year ended June 30, 2016.

The Fund includes a Deferred Retirement Option Plan (DROP Plan). The DROP Plan allows a participant to declare that they will retire within 4 years. During the 4-year period, the City will make no further contributions for the participant. The participant would continue to work and to receive their salary; however, any increases would not be counted towards their pension benefit. During the 4-year period the individual participates in the DROP Plan, their pension benefits will be paid into an escrow account in the participant's name. After the 4-year period, the participant would begin to receive their pension benefits and the amount that has been accumulated in the escrow account in a lump sum payment. The balance in the DROP Plan as of June 30, 2016 is \$113.9 million.

### **c. INVESTMENTS**

The Pension Board's Investment Policy Statement provides, in part:

The overall investment objectives and goals should be achieved by use of a diversified portfolio, with safety of principal a primary emphasis. The portfolio policy should employ flexibility by prudent diversification into various asset classes based upon the relative expected risk-reward relationship of the asset classes and the expected correlation of their returns.

The Fund seeks an annual total rate of return of not less than 7.75% over a full market cycle. It is anticipated that this return standard should enable the Fund to meet its actuarially assumed earnings projection (currently 7.75%) over a market cycle. The investment return assumption was reduced by the Board from 7.80% to 7.75%. The Fund's investment program will pursue its aforesaid total rate of return by a combination of income and appreciation, relying upon neither exclusively in evaluating a prospective investment for the Fund.

All investments are made only upon recommendation of the Fund's Investment Committee and approval by a majority of the Pension Board. In order to document and communicate the objectives, restrictions, and guidelines for the Fund's investment staff and investments, a continuously updated Investment Policy Statement will be maintained. The Investment Policy Statement will be updated (and re-affirmed) each year at the January Board meeting.

The following was the Board's approved asset allocation policy as of June 30, 2016:

<u>Asset Class</u>	<u>Target Allocation</u>
US Equity	29.8%
Non-US Equity – Developed	16.8%
Non-US Equity – Emerging	5.2%
Fixed Income – Investment Grade	19.0%
Fixed Income – Non-Invest. Grade	7.5%
Real Assets – Private Real Estate	2.6%
Real Assets – Public Real Estate	1.4%
Real Assets – MLP's	1.9%
Private Equity	9.1%
Private Debt	1.9%
Hedge Funds	3.7%
Cash & Other	1.1%
Total	<u>100.0%</u>

**Money-Weighted Rate of Return:** For the year ended June 30, 2016, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was -3.20%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for changing amounts actually invested.

d. **SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

**Basis of Presentation**

Financial statements of the Fund are prepared using the accrual basis of accounting. Member contributions are recognized in the period in which the contributions are due. Employer contributions are recognized when due and the employer has made a formal commitment to provide the contributions. Benefits and refunds of contributions are recognized when due and payable in accordance with the terms of the Fund.

**New GASB Pronouncement**

In February 2015, GASB issued Statement No.72, Fair Value Measurement and Application (GASB 72). This Statement addresses accounting and financial reporting issues related to fair value measurements, and provides guidance for determining a fair value measurement for financial reporting purposes. This Statement also provides guidance for applying fair value to certain investments and disclosures related to all fair value measurements. The requirements of this Statement become effective for fiscal periods beginning after June 15, 2015.

**Method Used to Value Investments**

The Fund's investments are reported at fair value. Fair value is the amount that the Fund can reasonably expect to receive for an investment in a current sale between a willing buyer and a willing seller, that is, other than in a forced or liquidation sale. Fixed income securities and common and preferred stocks are generally valued based on published market prices and quotations from national security exchanges or securities pricing services. Securities which are not traded on a national security exchange are valued by the respective fund manager or other third parties based on similar sales.

Directly-owned real estate investments are primarily valued based on appraisals performed by independent appraisers and for properties not appraised, the present value of the projected future net income stream is used.

For private market investments which include private equity, private debt, venture capital, hedge funds and equity real estate investments where no readily ascertainable market value exists, management, in consultation with the general partner and investment advisors, has determined the fair values for the individual in-



vestments based upon the partnership's most recent available financial information. Futures contracts, foreign exchange contracts, and options are marked-to-market daily with changes in market value recognized as part of net appreciation/depreciation in the fair value of investments. Initial margin requirements for such financial instruments are provided by investment securities pledged as collateral or by cash.

Investment expenses consist of investment manager fees and investment consultant fees related to the traditional investments only, and not those fees related to the alternative investments. Unsettled investment sales are reported as Accrued Interest and Other Receivable, and unsettled investment purchases are included in Accrued Expenses and Other Liabilities.

Dividend income is recorded on the ex-dividend date. Interest income is recorded as earned on an accrual basis.

#### **Income Taxes**

The Fund qualifies under Section 401(a) of the Internal Revenue Code (IRC) and is exempt from income taxation as allowed by Section 501(a) of the IRC.

#### **Related Parties**

The City's Department of Finance provides cash receipt and cash disbursement services to the Fund. The City's Solicitor's office provides legal services to the Fund. Other administrative services are also provided by the City.

#### **Use of Estimates in Preparing Financial Statements**

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

#### **Risks and Uncertainties**

The Fund invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the Statement of Fiduciary Net Position.

Contributions are calculated based on certain assumptions pertaining to interest rates, inflation rates, and employee demographics, all of which are subject to change. Due to uncertainties inherent in the estimation and assumption process, it is at least reasonably possible that changes in these statements and assumptions in the near term would be material to the financial statements.

#### **Administrative Expenses**

Administrative expenses of the Fund are paid for by the Fund.

### **e. CASH DEPOSITS, INVESTMENTS AND SECURITIES LENDING**

#### **Legal Provisions**

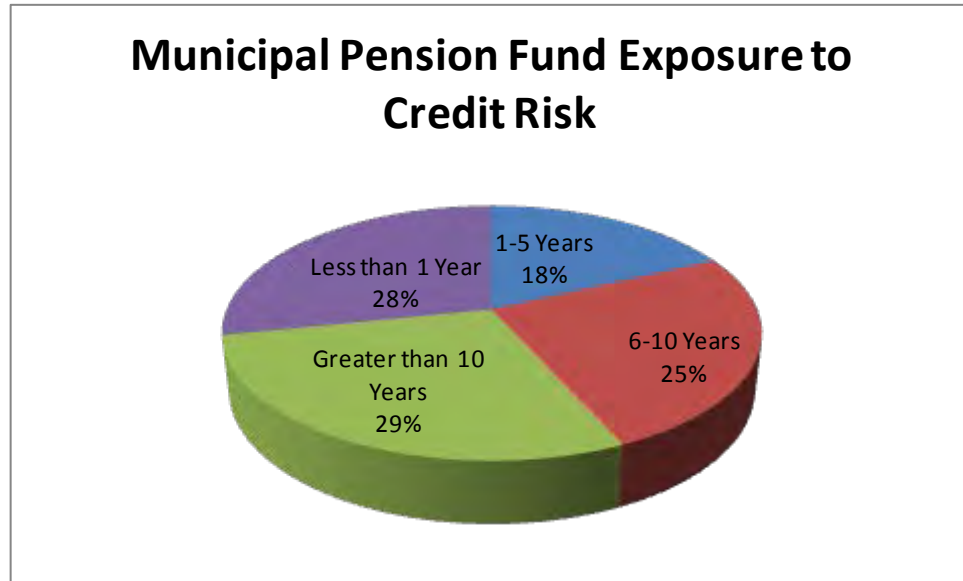
The Fund is authorized to invest in "prudent investments," including obligations of the U.S. Treasury, agencies and instrumentalities of the United States, investment grade corporate bonds, common stock, real estate, private market, etc. City ordinances contain provisions which preclude the Fund from investing in organizations that conduct business in certain countries and also impose limitations on the amounts invested in certain types of securities.

#### **Interest Rate Risk**

Interest rate risk is the largest risk faced by an investor in the fixed income market. The price of a fixed income security generally moves in the opposite direction of the change in interest rates. Securities with long maturities are highly sensitive to interest rate changes.

Duration is a measure of the approximate sensitivity of a bond's value to interest rate changes. The higher the duration, the greater the changes in fair value when interest rates change. The Fund measures interest rate risk using option-adjusted duration, which recognizes the fact that yield changes may change the expected cash flows due to embedded options.

This chart details the exposure to interest rate changes based on maturity dates of the fixed income securities:



#### Custodial Credit Risk

In the event of counter-party failure, the Fund may not be able to recover the value of its investment or collateral securities that are in the possession of an outside party. Investment securities are exposed to custodial credit risk if the securities held by the counterparty or counterparty's trust department, are uninsured and are not registered in the name of the Fund. The Fund requires that all investments be clearly marked as to ownership, and to the extent possible, be registered in the name of the Fund. Certain investments may be held by the managers in the Fund's name.

#### Concentration of Credit Risk

Concentration of credit risk is the risk of substantial loss if investments are concentrated in one issuer. As of June 30, 2016, the Fund has no single issuer that exceeds 5% of total investments. Investments issued or explicitly guaranteed by the U.S. government and investments in mutual funds, external investment pools, and other pooled investments are excluded.

#### Credit Risk

Credit Risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligation. The Fund's rated debt investments as of June 30, 2016 were rated by S&P, a nationally recognized statistical rating agency and are presented below using S&P rating scale:

2016 (in thousands)	Total Fair Value	Credit Rating										
		AAA	AA	A	BBB	BB	B	CCC	CC	C	D	NR
Asset Backed												
Securities	\$ 14,240	\$ 5,016	\$ 879	4,067	1,738	-	-	-	\$ -	\$ -	\$ -	2,540
CMO/REMIC	3,235	64	1,871	157	235	65	226	304	-	-	214	99
Commercial Mortgage-												
Backed Securities	17,944	5,998	7,521	2,217	555	-	65	-	-	-	-	1,588
Corporate Bonds	303,817	488	11,072	39,918	83,895	47,006	49,177	19,658	-	651	110	51,842
Government Bonds	346,418	10,656	246,212	30,129	17,608	25,097	4,554	1,010	-	-	-	11,152
Mortgage Backed												
Securities	79,798	-	79,798	-	-	-	-	-	-	-	-	-
Municipal Bonds	7,404	-	4,855	2,488	61	-	-	-	-	-	-	-

### Foreign Currency Risk

The Fund's exposure to foreign currency risk derives from its position in foreign currency-denominated cash and investments in fixed income, equities, and derivatives. The foreign currency investment in equity securities is 36% of the total investment in equities.

### Municipal Pension Fund - Assets subject to foreign currency risk *(in thousands)*

Currency	Fixed				Derivatives	Total
	Cash	Income	Equities			
Euro	2,052	8,774	191,517	(345)		201,998
Japanese Yen	12,120	-	138,058	-		150,178
Pound Sterling	878	8,604	129,033	1		138,516
Hong Kong Dollar	149	-	69,215	-		69,364
Swiss Franc	349	-	65,112	-		65,461
Canadian Dollar	5,553	206	45,669	(13)		51,415
Australian Dollar	183	11,102	36,791	-		48,076
South Korean Won	-	-	42,867	-		42,867
Mexican Peso	8	24,391	8,292	(20)		32,671
Brazilian Real	9	9,611	14,855	(23)		24,452
South African Rand	-	5,310	13,870	21		19,201
Malaysian Ringgit	7	6,832	6,814	-		13,653
Indonesian Rupiah	22	7,115	5,922	-		13,059
Swedish Krona	142	-	11,929	(404)		11,667
Danish Krone	58	-	8,540	-		8,598
Singapore Dollar	578	-	6,234	-		6,812
New Zealand Dollar	28	5,578	879	-		6,485
Polish Zloty	2	3,590	2,419	-		6,011
Philippine Peso	-	919	4,824	-		5,743
Hungarian Forint	-	4,838	579	(5)		5,412
Thai Baht	2	-	5,340	-		5,342
Chilean Peso	-	-	3,298	276		3,574
All Others	2,572	4,694	11,673	(90)		18,849
	<u>24,712</u>	<u>101,564</u>	<u>823,730</u>	<u>(602)</u>		<u>949,404</u>

## Derivatives

The Fund may invest in derivatives as permitted by guidelines established by the Pension Board. Pursuant to such authority, the Fund may invest in foreign currency forward contracts, options, futures (S&P Fund) and swaps. No derivatives were purchased with borrowed funds.

Derivatives are generally used to provide market exposure in the equity portfolio and to hedge against foreign currency risk and changes in interest rates, improve yield and adjust the duration of the Fund's fixed income portfolio. These securities are subject to changes in value due to changes in interest rates or currency valuations. Credit risk for derivatives results from the same considerations as other counterparty risk assumed by the Fund, which is the risk that the counterparty might be unable to meet its obligations.

Derivative instruments such as swaps, options, futures and forwards are often complex financial arrangements used by governments to manage specific risks or to make investments. By entering into these arrangements, governments receive and make payments based on market prices without actually entering into the related financial or commodity transactions. Derivative instruments associated with changing financial and commodity prices result in changing cash flows and fair values that can be used as effective risk management or investment tools. Derivative instruments, however, also can expose governments to significant risks and liabilities.

The Fund enters into a variety of financial contracts, which include options, futures, forwards and swap agreements to gain exposure to certain sectors of the equity and fixed income markets; collateralized mortgage obligations (CMOs); other forward contracts, and U.S. treasury strips. The contracts are used primarily to enhance performance and reduce the volatility of the portfolio. The Fund is exposed to credit risk in the event of non-performance by counterparties to financial instruments. The Fund generally enters into transactions only with high quality institutions. Legal risk is mitigated through selection of executing brokers and review of all documentation. The Fund is exposed to market risk, the risk that future changes in market conditions may make an instrument less valuable. Exposure to market risk is managed in accordance with risk limits set by senior management, through buying or selling instruments or entering into offsetting positions. The notional or contractual amounts of derivatives indicate the extent of the Fund's involvement in the various types and uses of derivative financial instruments and do not measure the Fund's exposure to credit or market risks and do not necessarily represent amounts exchanged by the parties. The amounts exchanged are determined by reference to the notional amounts and the other terms of the derivatives.

## Derivative Instruments

The following table summarizes aggregate notional or contractual amounts for the Fund's derivative financial instruments at June 30, 2016 in addition to the fair value and change in the fair value of derivatives.

List of Derivatives Aggregated by Investment Type

<u>Classification</u>	Change in Fair Value		Fair Value at June 30, 2016		Notional
Investment Derivatives:					
Forwards Currency Contracts	Net appreciation/(depreciation) in Investments	\$ (1,280,269)	Accrued interest and other receivables	\$ (588,465)	\$ 105,832,201
Futures	Net appreciation/(depreciation) in	\$ (93,192)	Accrued expenses	\$ (141,531)	\$ 113
Grand Totals		\$ (1,373,461)		\$ (729,996)	\$ 105,832,314

A Derivatives Policy Statement identifies and allows common derivative investments and strategies, which are consistent with the Investment Policy Statement of the City of Philadelphia Municipal Pension Fund. The guidelines identify transaction-level and portfolio-level risk control procedures and documentation requirements. Managers are required to measure and monitor exposure to counterparty credit risk. All counterparties must have credit ratings available from nationally recognized rating institutions such as Moody, Fitch, and S&P. The details of other risks and financial instruments in which the Fund involves are described below.

**Credit risk:**

The Fund is exposed to credit risk on hedging derivative instruments that are in asset positions. To minimize its exposure to loss related to credit risk, it is the Fund's policy to require counterparty collateral posting provisions in its non-exchange-traded hedging derivative instruments. These terms require full collateralization of the fair value of hedging derivative instruments in asset positions (net of the effect of applicable netting arrangements) should the counterparty's credit rating fall below AA as issued by Fitch Ratings and Standard & Poor's or Aa as issued by Moody's Investors Service. Collateral posted is to be in the form of U.S. Treasury securities held by a third-party custodian. The city has never failed to access collateral when required.

It is the Fund's policy to enter into netting arrangements whenever it has entered into more than one derivative instrument transaction with counterparty. Under the terms of these arrangements, should one party become insolvent or otherwise default on its obligations, close-out netting provisions permit the non-defaulting party to accelerate and terminate all outstanding transactions and net the transactions' fair values so that a single sum will be owed by, or owed to, the non-defaulting party.

**Swap agreements:**

These derivative instruments provide for periodic payments at predetermined future dates between parties based on the change in value of underlying securities, indexes or interest rates. Under fixed interest rate type swap arrangements, the Fund receives the fixed interest rate on certain equity or debt securities or indexes in exchange for a fixed charge. There were not any total receive fixed interest Swaps during 2016. On its pay-variable, received-fixed interest rate swap, as LIBOR increases, the Fund's net payment on the swap increases. Alternatively, on its pay-fixed, receive-variable interest rate swap, as LIBOR or the SIFMA swap index decreases, the Fund's net payment on the swap increases.

**Futures contracts:**

These derivative instruments are types of contracts in which the buyer agrees to purchase and the seller agrees to make delivery of a specific financial instrument at a predetermined date and price. Gains and losses on futures contracts are settled daily based on a notional (underlying) principal value and do not involve an actual transfer of the specific instrument. Futures contracts are standardized and are traded on exchanges. The exchange assumes the risk that counterparty will not pay and generally requires margin payments to minimize such risk. In addition, the Fund enters into short sales, sales of securities it does not presently own, to neutralize the market risk of certain equity positions. Initial margin requirements on futures contracts and collateral for short sales are provided by investment securities pledged as collateral and by cash held by various brokers. Although the Fund has the right to access individual pledged securities, it must maintain the amount pledged by substituting other securities for those accessed. The realized gain from Futures contracts was (\$425,537). The fund has cash collateral of \$971,025 are valued using a matrix pricing model (Level 2 inputs).

**Forward contracts:**

The Fund is exposed to basis risk on its forward contracts because the expected funds purchase being hedged will price based on a pricing point different than the pricing point at which the forward contract is expected to settle. The realized gain from Forward contracts was \$944,312.

**Termination risk:**

The Fund or its counterparties may terminate a derivative instrument if the other party fails to perform under the terms of the contract. In addition, the Fund is exposed to termination risk on its receive-fixed interest rate swap. The Fund is exposed to termination risk on its rate cap because the counterparty has the option to terminate the contract if the SIFMA swap index exceeds 12 percent. If at the time of termination, a hedging derivative instrument is in a liability position, the City would be liable to the counterparty for a payment equal to the liability, subject to netting arrangements.

**Rollover risk:**

The Fund is exposed to rollover risk on hedging derivative instruments that are hedges of debt that mature or may be terminated prior to the maturity of the hedged debt. When these hedging derivative instruments terminate, or in the case of a termination option, if the counterparty exercises its option, the Fund will be re-exposed to the risks being hedged by the hedging derivative instrument.

## Fair Value Measurement

The Municipal Pension Fund has the following recurring fair value measurement as of June 30, 2016:

		Fair Value Measurements Using		
		Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
	6/30/2016			
<b>Investments by fair value level</b>				
U.S. Treasury Securities	\$ 174,835,825	\$ -	\$ 174,835,825	\$ -
Agency Bonds	40,428,452	-	40,428,452	-
Asset Backed Securities	14,241,090	-	14,241,085	5
Corporate Bonds	304,026,106	-	303,847,733	178,373
Government Bonds	118,483,977	-	118,483,977	-
Mortgage Backed Securities	100,998,630	-	98,931,992	2,066,638
Municipal Bonds	7,403,777	-	7,403,777	-
Sovereign Debt	12,438,505	-	12,438,505	-
Equity	2,257,989,112	2,256,503,492	-	1,485,620
<b>Total Investments by fair value level</b>	<b>\$ 3,030,845,474</b>	<b>\$ 2,256,503,492</b>	<b>\$ 770,611,346</b>	<b>\$ 3,730,636</b>
<b>Investments measured at the net asset value (NAV)</b>				
Credit Distressed Hedge Fund	65,082,999			
Equity Long/Short hedge funds	21,306,534			
Real Estate	229,875,204			
Private Equity	437,907,757			
Fixed Income Funds	337,486,107			
Equity Funds	75,354,026			
<b>Total Investments measured at the NAV</b>	<b>1,167,012,627</b>			
<b>Total Investments measured at fair value</b>	<b>\$ 4,197,858,101</b>			
<b>Investment derivative instruments</b>				
Equity index Futures (Liabilities)	\$ (141,531)	\$ (141,531)	\$ -	
Forward Currency Contracts (Assets)	368,133	-	368,133	
Forward Currency Contracts (Liabilities)	(956,598)	-	(956,598)	
<b>Total Investment derivative instruments</b>	<b>\$ (729,996)</b>	<b>\$ (141,531)</b>	<b>\$ (588,465)</b>	

Equity securities classified in Level 1 of the fair value hierarchy are valued using quoted market prices. Debt securities classified in Level 2 of the fair value hierarchy are valued using a matrix pricing technique. Mortgage and Asset backed securities and Corporate bonds in Level 3 are valued using discounted cash flow techniques.

The valuation method for investments measured at the net asset value (NAV) per share (or its equivalent) is presented on the following table.

Derivative instruments classified in Level 1 of the fair value hierarchy are valued using quoted market prices. Cash collateral for Futures classified in Level 2 are valued using a matrix pricing model. Derivative instruments classified in Level 2 are valued using a market approach that considers benchmark for foreign exchange rates.

		Unfunded	Redemption	Redemption
		Commitments	Frequency (If	Notice
			Currently Eligible)	Period
<u>Investments Measured at the net asset value (NAV)</u>				
Credit Distressed Hedge Fund	\$ 65,082,999	-	Quarterly	90 days
Equity Long/Short hedge funds	21,306,534	-	Quarterly	90 days' notice
Real Estate	229,875,204	69,324,702	N/A	N/A
Private Equity	437,907,757	210,080,552	N/A	N/A
Fixed Income	337,486,107	-	Quarterly	90-120 days
Equity	75,354,026	-	Quarterly	90-120 days
<b>Total Investments measured at the NAV</b>	<b>\$ 1,167,012,627</b>			

**1. Equity long/short hedge funds:** This Fund will typically hold 40-50 long positions and 10-15 short positions in U.S. common stocks. Management has the ability to shift investments from value to growth strategies, from small to large capitalization stocks, and from a net long position to a net short position. The Fund mitigates market risk by utilizing short positions. In periods of extreme volatility, the Fund may hold a significant portion of its assets in cash. The fair values of the investments in this type have been determined using the NAV per share of the investments. Investment can be redeemed with a 90 days' notice.

**2. Credit distressed hedge funds:** The Funds seek to identify and exploit event driven opportunities both on the long and short side in the stressed and distressed corporate debt markets. Investments are generally driven by fundamental, value-oriented analysis and specific credit events. The Funds maintain the flexibility to invest globally and across capital structures of stressed and distressed companies. Investments generally target secondary U.S. credit opportunities across all tranches of a company's debt capital structure. The Funds may also invest opportunistically in certain equities, long and short. The fair values of the investments in this type have been determined using the NAV per share (or its equivalent) of the investments. Investment can be redeemed with a 90 days' notice.

**3. Real estate funds:** This type includes funds that invest in U.S. and Non-U.S. commercial and residential real estate. The fair values of the investments in this type have been determined using the NAV per share (or its equivalent) of the Plan's ownership interest in partners' capital. These investments can never be redeemed with the funds. Distributions from each fund will be received as the underlying investments of the funds are liquidated. However, the individual investments that will be sold have not yet been determined. Because it is not probable that any individual investment will be sold, the fair value of each individual investment has been determined using the NAV per share (or its equivalent) of the Plan's ownership interest in partners' capital. Once it has been determined which investments will be sold and whether those investments will be sold individually or in a group, the investments will be sold in an auction process. The investee fund's management is required to approve of the buyer before the sale of the investments can be completed. It is expected that the underlying assets of the funds will be liquidated over the next seven to 10 years.

**4. Private equity funds:** The primary goal of these Funds is to generate returns for investors that exceed private equity industry benchmarks and are commensurate with asset class risk through the construction of a portfolio of opportunistic, highly performing private equity investments. Investments that fund may undertake include early-stage venture capital, later-stage growth financings, leveraged buyouts of medium and large-sized companies, mezzanine investments, PIPES and investments in companies that are being taken private. These investments can never be redeemed with the funds. Instead, the nature of the investments in this type is that distributions are received through the liquidation of the underlying assets of the fund. If these investments were held, it is expected that the underlying assets of the fund would be liquidated over five to 10 years. The fair values of the investments in this type have been determined using recent observable transaction information for similar investments and nonbinding bids received from potential buyers of the investments. Once a buyer has been identified, the investee fund's management is required to approve of the buyer before the sale of the investments can be completed.

**5. Fixed Income funds:** The primary goal of these Funds is to create alpha by sourcing proprietary opportunities, avoiding capital loss, buying securities below their intrinsic value and selling securities above their intrinsic value. Firms look for opportunities that are currently mispriced, based on fundamentals or potentially an event that may improve the price of the holding.

**6. Equity funds:** The primary goal of these Funds is employ a private equity approach to public market investing which seeks to deliver superior returns through a value-oriented investment strategy focusing on companies that are (or should be) implementing strategic change.

### Securities Lending Program

The Fund, pursuant to a Securities Lending Authorization Agreement, has authorized J.P. Morgan Bank and Trust Company (J.P. Morgan) to act as the Fund's agent in lending the Fund's securities to approved borrowers. J.P. Morgan, as agent, enters into Securities Loan Agreements with borrowers.

During the fiscal year, J.P. Morgan lent, on behalf of the Fund, certain securities of the Fund held by J.P. Morgan chase bank, N.A. as custodian and received cash or other collateral including securities issued or guaranteed by the United States, U.K., and Eurozone governments. J.P. Morgan does not have the ability to pledge or sell collateral securities delivered absent a borrower default. Borrowers were required to deliver collateral for each loan equal to at least 102% or 105% of the market value of the loaned securities.

Pursuant to the Securities Lending Authorization Agreement, J.P. Morgan had an obligation to indemnify the Fund in the event of default by a borrower. There were no failures by any borrowers to return loaned securities or pay distributions thereon during the fiscal year that resulted in a declaration or notice of default of the borrower.

During the fiscal year, the Fund and the borrowers maintained the right to terminate securities lending transactions upon notice. The cash collateral received on each loan was invested in a separately managed account based upon the investment guidelines established by the Fund. As of June 30, 2016 the weighted average maturity was 48 days and the final maturity was 351 days.

Because the securities lending transactions were terminable at will, their duration did not generally match the duration of the investments made with the cash collateral received from the borrower.

On June 30, 2016, the Fund had no credit risk exposure to borrowers.

As of June 30, 2016, the fair value of securities on loan was \$323.5 million. Associated collateral totaling \$331.3 million was comprised of cash which was invested in a separately managed account based upon the investment guidelines established by the Pension Fund. As of June 30, 2016, the invested cash collateral was \$331.0 million and is valued at amortized cost.

### f. INVESTMENT ADVISORS

The Fund utilizes investment advisors to manage long-term debt, real estate, private market, and equity portfolios. To be eligible for consideration, investments must meet criteria set forth in governing laws and regulations.

### g. NET PENSION LIABILITY

The components of the net pension liability as of June 30, 2016 were as follows:

Total Pension Liability	\$ 10,877,209,958
Plan Fiduciary Net Position	<u>4,357,975,073</u>
Collective Net Pension Liability	<u>\$ 6,519,234,885</u>

Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	40.1%
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Actuarial assumptions:

The total pension liability was determined by an actuarial valuation as of June 30, 2015 and was rolled forward to June 30, 2016. The June 30, 2015 used the following actuarial assumptions, applied to all periods including the measurement period:

Actuarial Cost Method:	Entry Age Normal
Investment Rate of Return:	7.75% compounded annually, net of expenses
Salary Increases:	Age based table

- The investment return assumption was changed from 7.80% from the prior year valuation to 7.75% for the current year valuation.



- To recognize the expense of the benefits payable under the Pension Adjustment Fund, the actuarial liabilities have been increased 0.54%. This estimate is based on the statistical average expected value of benefits.
- The mortality rates were based on the RP 2000 Healthy Annuitant Mortality Table for males and females with adjustments for mortality improvements using Scale AA with a five year set-back for Municipal males and females and a 2 year set-back for Police and Fire males and females.

The measurement date for the net pension liability is June 30, 2016. Measurements are based on the fair value of assets as of June 30, 2016 and the Total Pension Liability as of the valuation date, July 1, 2015 updated to June 30, 2016. The roll-forward procedure included the addition of service cost and interest cost offset by actual benefit payments. There were actuarial experience losses during the year of approximately \$152 million which includes the loss due to the Pension Adjustment Fund payment of \$30 million. In addition, the Board adopted recommended assumption changes, including:

- Decrease in the expected long-term return on assets from 7.80% to 7.75%
- Increase the load on valuation pay from 4% to 6% for Police participants to account for stress pay and for Fire participants to account for premium pay.

The combined effect of these assumption changes increased the TPL by approximately \$85 million as a year-end value. The pension plan's fiduciary net position has been determined on the same basis used by the pension plan.

**Long-term expected rate of return:** The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

Best estimates of geometric real rates of return for each major asset class included in the pension plan's target asset allocation as of June 30, 2016 (see discussion of pension plan's investment policy) are summarized in the following table:

<u>Asset Class</u>	<u>Long-Term Expected Real Rate of Return</u>
US Equity	7.90%
Non-US Equity – Developed	7.60%
Non-US Equity – Emerging	7.20%
ACWI Ex-US	7.30%
Broad Fixed Income	2.80%
Global Aggregate	1.70%
Emerging Market Debt	5.80%
High Yield	5.20%
Universal	3.20%
91 Day T-bills	0.20%
Bank Loans	4.70%
Opportunistic Credit	2.05%
Real Assets – Public REITS	7.20%
Real Assets – Private Real Estate	12.70%
Real Assets – MLP's	7.80%
Private Equity	10.95%
Hedge Fund	5.50%

The above table reflects the expected (7-10 year) real rate of return for each major asset class. The expected inflation rate is projected at 0.84% for the same time period.

**Discount Rate:** The discount rate used to measure the total pension liability was 7.75 percent. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and the participating governmental entity contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods on projected benefit payment to determine the total pension liability.

**Sensitivity of the net pension liability:** The following presents the net pension liability of the System, calculated using the discount rate of 7.75%, as well as what the System's net pension liability would be if it were calculated using a discount rate that is 1% lower or 1% higher than the current rate:

**Sensitivity of Collective Net Pension Liability to changes in Discount Rate**

	1% Decrease 6.75%	Discount Rate 7.75%	1% Increase 8.75%
Total Pension Liability	\$ 11,968,855,837	\$ 10,877,209,958	\$ 9,946,862,734
Plan Fiduciary Net Position	4,357,975,073	4,357,975,073	4,357,975,073
Collective Net Pension Liability	<u>\$ 7,610,880,764</u>	<u>\$ 6,519,234,885</u>	<u>\$ 5,588,887,661</u>
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	36.4%	40.1%	43.8%

**h. GUARANTEE OF BENEFITS**

Benefits under the Fund are guaranteed by statute. In the event that employee contributions do not equal required benefits, the City's General Fund must provide any shortfall.

**i. PARTICIPATION IN THE PENSION FUND**

The trustees for the Fund are also members of the Fund and as such, are subject to the provisions of the Fund as described in the notes to these financial statements.

**j. SUBSEQUENT EVENTS**

Management evaluated subsequent events through January 11, 2017 the date the financial statements were available to be issued. Events or transactions occurring after June 30, 2016, but prior to January 11, 2017 that provided , additional evidence about conditions that existed at June 30, 2016, have been recognized in the financial statements for the year ended June 30, 2016. Events or transactions that provided evidence about conditions that did not exist at June 30, 2016, but arose before the financial statements were available to be issued have not been recognized in the financial statements for the year ended June 30, 2016.

**k. REPORTING INFORMATION FOR PARTICIPATING EMPLOYERS**

**Changes in Collective Net Pension Liability:** The following table shows the changes in total pension liability (TPL), the plan fiduciary net position (i.e., fair value of the System assets) (FNP), and the net pension liability (NPL) during the measurement period ending on June 30, 2016.

	Change in Collective Net Pension Liability		
	Increase (Decrease)		
	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability
	(a)	(b)	(a) - (b)
<b>Balances at 6/30/2015</b>	\$ 10,578,457,204	\$ 4,674,252,000	\$ 5,904,205,204
<b>Changes for the year:</b>			
Service Cost	148,370,075		148,370,075
Interest	802,659,333		802,659,333
Changes in benefits	0		0
Differences between expected and actual experience	151,918,733		151,918,733
Changes of assumptions	85,147,737		85,147,737
Contributions - employer		660,246,511	(660,246,511)
Contributions - member		67,055,003	(67,055,003)
Net investment income		(145,681,480)	145,681,480
Benefit payments	(889,343,124)	(889,343,124)	0
Administrative expense		(8,553,837)	8,553,837
<b>Net Changes</b>	<b>298,752,754</b>	<b>(316,276,927)</b>	<b>615,029,681</b>
<b>Balances at 6/30/2016</b>	<b>\$ 10,877,209,958</b>	<b>\$ 4,357,975,073</b>	<b>\$ 6,519,234,885</b>

**Employer's Proportionate Shares:** GASB 68 requires that the proportionate share for each employer be determined based upon the "employer's projected long-term contribution effort to the pension ... as compared to the total long-term contribution effort to all employers". In addition to the City, three governmental agencies currently participate in the system, PHDC, PPA, and PMA. The method of allocation is based on the ratio of quasi-agency contributions in proportion to total contributions by plan.

**Pension amounts by employer:** The following schedule presents the pension amounts for each participating employer: Philadelphia Parking Authority (PPA), Philadelphia Municipal Authority (PMA), Philadelphia Housing Development Corporation (PHDC), and the City of Philadelphia (City).

Schedule of Pension Amounts by Employer						
	For the year ended	PPA	PMA	PHDC	City	Total
Collective Pension Expense		\$ 25,387,890	\$ 358,942	\$ 2,451,900	\$ 760,854,021	\$ 789,052,753
Change in Proportion		10,414,416	282,118	712,826	(11,409,360)	0
Contribution Difference		2,932,864	18,215	204,649	(3,155,728)	0
Employer Pension Expense		38,735,170	659,275	3,369,375	746,288,933	789,052,753
Net Pension Liability	6/30/15	145,684,531	1,486,220	15,315,633	5,741,718,820	5,904,205,204
Net Pension Liability	6/30/16	209,757,354	2,965,619	20,257,849	6,286,254,060	6,519,234,882
Change in Net Pension Liability		64,072,823	1,479,399	4,942,216	544,535,240	615,029,678
Deferred Outflows	6/30/15	12,276,927	106,529	1,161,645	340,540,743	354,085,844
Deferred Outflows	6/30/16	65,741,046	1,275,353	5,267,031	806,510,385	878,793,815
Change in Deferred Outflows		53,464,119	1,168,824	4,105,386	465,969,642	524,707,971
Deferred Inflows	6/30/15	-	-	-	(3,908,051)	(3,908,051)
Deferred Inflows	6/30/16	-	-	-	(42,392,584)	(42,392,584)
Change in Deferred Inflows		0	0	0	(38,484,533)	(38,484,533)
Employer Contributions		28,126,464	348,700	2,532,545	629,238,802	660,246,511
Employer Pension Expense		38,735,170	659,275	3,369,375	746,288,933	789,052,753

### Reconciliation of Net Pension Liability

The following table reconciles the Collective Net Pension Liability to the amount reported in the Primary Government Net Pension Liability in Exhibit I.

#### Reconciliation of Collective Net Pension Liability to the Primary Government Net Pension Liability (Amounts in thousands of USD)

Municipal Pension Fund	Proportionate Share of NPL	Discretely Presented Component Units	City and Blended Component Units
City	\$ 6,286,254	\$ -	\$ 6,286,254
PPA	209,757	209,757	
PMA	2,966		2,966
PHDC (1)	20,258	20,258	
Collective Net Pension Liability	<u>6,519,235</u>	<u>230,015</u>	<u>6,289,220</u>
State Pension Fund			
PICA			1,236
City's Primary Government Net Pension Liability (Exhibit I)			<u>\$ 6,290,456</u>

(1) PHDC does not appear in the Component Unit Financial Statements (Exhibit XI Statement of Net Position and Exhibit XII Statement of Activities) due to immateriality.

### Deferred Outflows by Employer

The following table summarizes the deferred outflows allocated to each employer for experience, assumptions changes, investment returns and contribution differences.

#### Schedule of Employers' Deferred Outflows

	PPA	PMA	PHDC	City	Total
Proportionate Shares	3.22%	0.05%	0.31%	96.43%	100%
Experience	\$ 4,227,615	\$ 59,771	\$ 408,293	\$ 126,698,103	\$ 131,393,782
Assumption Changes	2,829,290	40,001	273,246	84,791,466	87,934,003
Investment Return	19,854,430	280,709	1,917,492	595,020,815	617,073,446
Proportion Change	31,243,249	846,353	2,138,476	-	34,228,078
Contribution Difference	7,586,463	48,519	529,524	-	8,164,506
	<u>\$ 65,741,047</u>	<u>\$ 1,275,353</u>	<u>\$ 5,267,031</u>	<u>\$ 806,510,384</u>	<u>\$ 878,793,815</u>

### Deferred Inflows by Employer

The following table summarizes the deferred inflows allocated to each employer for experience, assumptions changes, investment returns and contribution differences.

#### Schedule of Employers' Deferred Inflows

	PPA	PMA	PHDC	City	Total
Proportionate Shares	3.22%	0.05%	0.31%	96.43%	100%
Experience	\$ -	\$ -	\$ -	\$ -	\$ -
Assumption Changes	-	-	-	-	0
Investment Return	-	-	-	-	0
Proportion Change	-	-	-	(34,228,078)	(34,228,078)
Contribution Difference	-	-	-	(8,164,506)	(8,164,506)
	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ (42,392,584)</u>	<u>\$ (42,392,584)</u>

### Recognition of Deferred Outflows and Inflows by Employer

The following table shows the net amount of deferred outflows and inflows to be recognized by each participating employer in each of the next five years and the total thereafter.

Schedule of Employers' Recognition of Deferred Outflows and Inflows

For Year Ending	PPA	PMA	PHDC	City	Total
2017	\$ 21,464,807	\$ 415,101	\$ 1,701,446	\$ 228,710,459	\$ 252,291,813
2018	21,464,807	415,102	1,701,447	228,710,457	\$ 252,291,813
2019	19,584,595	399,528	1,552,498	209,991,227	\$ 231,527,848
2020	3,226,838	45,622	311,640	96,705,657	\$ 100,289,757
2021	-	-	-	-	\$ -
Thereafter	-	-	-	-	\$ -
Total	\$ 65,741,047	\$ 1,275,353	\$ 5,267,031	\$ 764,117,800	\$ 836,401,231

## (2) Philadelphia Gas Works (PGW) Plan

### a. PLAN DESCRIPTION

The City of Philadelphia (the "City"), maintains two pension systems providing benefits for its employees and several of its component units: The City's pension system includes the Municipal Pension (the "Fund"); and the Gas Works Plan (the "Plan"). Each pension system is a separate Public Employee Retirement System ("PERS") with a separate oversight body and is financially independent of the others. In each case, the City is required by the Philadelphia Home Rule Charter to maintain an actuarially sound pension and retirement system.

There are no component units of the Plan. In determining its oversight responsibility, the Plan considers financial interdependency, selection of governing authority, designation of management, ability to significantly influence operations, and accountability of fiscal matters.

The Plan consists of Philadelphia Gas Works ("PGW" or the "Company"), a component unit of the City and is included in the City's Comprehensive Annual Financial Report as a trust and agency fund.

The Plan is a single employer defined benefit PERS. The Plan provides pension benefits for all eligible employees of Philadelphia Gas Works, and other eligible class employees of Philadelphia Facilities Management Corporation (PFMC) and Philadelphia Gas Commission (PGC).

The Plan is administered by the Sinking Fund Commission of the City of Philadelphia (the "Commission"). The Commission is responsible for the administration of the Plan. Certain administrative aspects of the Plan are delegated to PGW. The Commission acts in a fiduciary matter with regards to the assets of the Plan. The Commission was established by the City Charter and consists of the Director of Finance, the City Controller and an experienced banker or investment banker appointed by the Mayor. Alternates for these members are allowed by written authorization of the Mayor.

As of the latest available actuarial valuation (June 30, 2016), the Plan's membership consisted of:

Active participants	1,251
Retired participants	2,192
Vested terminated participants	329
Total Plan participants	<u>3,772</u>

The Plan is currently open to all employees of PGW.

**b. BENEFITS PROVIDED**

*Normal Retirement Benefits:* The Plan provides retirement benefits as well as death and disability benefits. Retirement benefits are vested after 5 years of credited service. Employees who retire at or after age 65 are entitled to receive an annual retirement benefit, payable monthly, in an amount equal to the greater of:

- 1.25 percent of the first \$6,600 of Final Average Earnings plus 1.75 percent of the excess of Final Average Earnings over \$6,600, times years of credited service, with a maximum of 60 percent of the highest annual earnings during the last 10 years of credited service, applicable to all participants; or,
- 2 percent of total earnings received during the period of credited service plus 22.5 percent of the first \$1,200 of such amount, applicable only to participants who were employees on or prior to March 24, 1967.

*Death Benefits:* Before retirement, spouses of deceased active participants or of former participants are entitled to vested benefits provided such participants died after having attained age 45 and completed at least 15 years of Credited Service and whose age plus years of credited service equals at least 65 years of whom have completed at least 15 years of Credited Service regardless of age. The benefit payable is an amount for the spouse's remaining lifetime equal to the amount the beneficiary of the participant would have received had the participant retired due to a disability on the day preceding his/her death and elected the 100% contingent annuitant option.

*Disability Benefits:* Disability benefits are the same as the Normal Retirement Benefits and are based on Final Average Compensation and Credited Service as of the date of disability.

Final Average Earnings are the employees' average pay, over the highest five years of the last ten years of credited service. Employees with 15 years of credited service may retire at or after age 55 and receive a reduced retirement benefit. In addition, employees with 30 years of credited service are eligible to select early retirement with no reduction in benefits.

Covered employees (those employees who are participants in the Plan as of May 21, 2011) are not required to contribute to the Plan. Contributing employees (those employees who became participants) are required to contribute to the Plan (see Note c, Employee Contributions). The Company is required by statute to contribute the amounts necessary to finance the Plan. Benefit and contribution provisions are established by City ordinance and may be amended only as allowed by City ordinance. Benefits under the Plan are guaranteed by statute. In the event employer contributions are not sufficient to pay required benefits, the City's General fund must provide any shortfall.

**c. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND PLAN ASSET MATTERS**

**Basis of Accounting**

Plan financial statements are prepared using the accrual basis of accounting. Employer contributions are recognized as revenues when due, pursuant to formal commitments, as well as statutory or contractual requirements.

**Investment Policy**

The Commission maintains a Statement of Investment Guidelines ("Policy") consistent with the needs of the Plan. The latest Policy was approved by the Commission at its meeting on November 12, 2014. The Policy serves as the chief communication tool of the Commission with vendors and investment managers. The Policy defines the need for the Policy, the goals of the Plan, the asset allocation, the investment guidelines, including prohibited investments, as well as the objectives for each manager and benchmarks for each type of investment. Additionally, it defines the necessary communication and responsibilities of each party, including the Commission, the investment managers, the custodian and the consultant. The Policy can only be revised or changed by a vote by the Commission. For a fuller description of the Investment Policy, see the online version at: <http://www.phila.gov/Treasurer/pdfs/PGWPP>.

**Investments**

The Plan reports investments at their fair value in the statement of fiduciary net position. Unrealized gains and losses are included in the statement of changes in fiduciary net position. Securities traded on national or international exchanges are recorded at the last reported sales price at current exchange rates.

Investment income is recognized as earned. Gains and losses on sales and exchanges are recognized on the transaction date. Net realized gains on sales amounted to \$11,166,030 for the year ended June 30, 2016. Net unrealized losses for the year ended June 30, 2016 totaled \$22,208,938.

### Income Taxes

The Plan is not subject to Federal, state or local income taxes.

### Deposits and Investments

The Plan is authorized to maintain a diversified portfolio in the following types of investments: U.S. Treasury or agency obligations, corporate debt and equity securities, and foreign debt and equity securities. City ordinances and sinking fund policies contain provisions which preclude the Plan from investing in organizations that conduct business in certain countries and industries and also impose limitations on the amounts invested in certain types of securities.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

The annual money-weighted return for the year ended June 30, 2016 was 0.02 percent.

The Pension Plan utilizes both equity and fixed-income investments consistent with the Policy as described above. As of June 30, 2016, the Plan had investments of approximately \$470 million, comprised of \$311 million in equities and \$159 million in fixed-income investments. The ratio of equities to fixed income is 66 percent to 34 percent which is in line with the Policy guidelines of 60-70 percent equities and 30-40 percent fixed income.

The Commission employs third-party vendors to manage the assets of the Plan as well as perform other needed services. As of June 30, 2016, the Commission employed the following investment managers and vendors:

Manager	Mandate	Balance (millions)
<u>Equity Managers</u>		
RhumbLine Asset Management	Domestic Large Cap Index	\$ 102.3
Fred Alger Management, Inc	Domestic Large Cap Growth	34.0
O'Shaughnessy Asset Management	Domestic Large Cap Value	35.4
Northern Trust Company	Domestic Large Cap Index	30.5
Harding-Loevner	International Growth (fund)	24.4
Mondarian International Equity	International Value (fund)	22.8
Eagle Asset Management	Domestic Small Cap Growth	21.3
Dimensional Fund Advisors	Emerging Markets (fund)	21.6
Vaughan Nelson	Domestic Small Cap Value	19.0
		<u>\$ 311.3</u>
<u>Bond Managers</u>		
Weaver Barksdale	Core	38.2
Logan Circle Partners	Core Plus	35.2
Garcia Hamilton	Intermediate	45.4
Lazard Asset Management	Intermediate Plus	40.2
		<u>159.0</u>
Other Assets		<u>0.2</u>
Total		<u>\$ 470.5</u>

During Fiscal year 2016, the Commission changed investment managers to reduce costs and increase returns for the Plan. Accordingly, the Commission moved the funds managed by one equity manager to O'Shaughnessy Asset Management.

At its quarterly meetings, the Commission, with the assistance of PFM Asset Management LLC monitors the performance of the investment managers over various periods of time, and will change a manager when the Commission deems it necessary. Each of the managers and other vendors (except for those marked 'fund') are contracted for a period of one year, with three one-year extensions at the discretion of the Commission.

**Due from and to Brokers**

Due from brokers represents the value of investments sold by brokers prior to year-end, for which the settlement date of the sale occurred subsequent to year end. Similarly, due to brokers represents the value of investments purchased by brokers prior to year-end, for which the settlement date of the purchase occurred subsequent to year end.

**Funding Policy**

The Plan's funding policy provides for periodic employer contributions at actuarially determined rates that, expressed as percentages of annual covered payroll, are sufficient to accumulate assets to pay benefits when due. Level percentages of payroll employer contributions rates are determined using the Projected Unit Credit actuarial funding method. The most recent annual actuarial valuation is as of June 30, 2016 and the contribution rate as of percentage of payroll was 29.14 percent.

**Employee Contributions**

In December 2011 the City of Philadelphia City Council approved Bill No. 110830 "An Ordinance" effecting PGW workers hired on or after May 21, 2011. The ordinance states, in part, that employees commencing employment on or after May 21, 2011 shall become a participant in the Plan only upon completion of an irrevocable written election to participate in the Plan. Such election must be made within thirty days after their employment commencement date, or if later, thirty days after the effective date of the ordinance. All such employees who elect to participate in the Plan are deemed contributing participants.

Contributing participants (Non-covered employees) in the Plan are required to make annual contributions totaling 6 percent of their compensation. Such contributions are made by means of periodic payroll deductions determined by the sponsor. Contributing participants are 100 percent vested in their contribution. All participants in the Plan, including contributing participants, have no vested interest in their accrued benefit until they have 5 years of credited service, at which time they become 100 percent vested in their accrued benefit. Contributions from contributing participants for the Plan year ending June 30, 2016 totaled \$602,287.

In addition, newly hired employees who commence employment on or after May 21, 2011 who opt out of the Plan will enter into the newly formed Philadelphia Gas Works Employees' Defined Contribution Plan, a tax qualified defined contribution plan pursuant to Section 401(a) of the Internal Revenue Code of 1986 as amended. The defined contribution plan provides for an employer contribution equal to 5.5% of applicable wages. Assets of this plan are not a part of the City of Philadelphia Gas Works Retirement Reserve Fund and are not reported on in these financial statements.

**Benefits Payable**

The pension benefits are paid monthly. As a result, there are no pension benefits payable at June 30, 2016.

**Trend Information**

Historical trend information related to the Plan is presented in the Supplemental Information section. The information is presented to enable the reader to assess the progress made by the Plan in accumulating sufficient assets to pay pension benefits as they become due.

**Investment Advisors**

The Fund utilizes numerous investment advisors to manage debt and equity portfolios. The Sinking Fund Commission must approve all investment advisors.

**Related Parties**

The Sinking Fund Commission is the trustee of the investments of the Plan. The City of Philadelphia Department of Finance provides bookkeeping services for the Plan. Philadelphia Gas Works makes monthly benefit payments to retirees on behalf of the Plan and incurs administrative expenses on behalf of the Plan. Benefits payments made by PGW and administrative costs incurred by PGW on behalf of the Plan amounted to \$50,446,550 and \$189,907 respectively for the year ended June 30, 2016.

**Fair Value of Financial Instruments**

The carrying values of financial instruments including interest and dividends receivable, due from brokers, accounts payable, and amounts due to PGW and brokers approximate their fair market value due to the relative short maturity of these instruments.

**Use of Estimates**



The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at June 30, 2016, and the reported amounts of revenues and expenses during the year then ended. Actual results could differ from those estimates. Significant estimate includes the valuation of investments without quoted prices in an active market for identical assets and the actuarial estimates for Plan future benefit obligations.

**d. DISCLOSURE ABOUT FAIR VALUE OF FINANCIAL INSTRUMENTS**

The accounting pronouncement on fair value measurements establishes a framework for measuring fair value. That framework provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). The three levels of the fair value hierarchy are described below:

Level 1 – Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access. Such inputs include quoted prices in active markets for identical assets or liabilities.

Level 2 - Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3 - Unobservable inputs that are supported by little or no market activity and that are financial instruments whose values are determined using pricing models, discounted cash flow methodologies, or similar techniques, as well as instruments for which the determination of fair value requires significant judgment or estimation.

The asset or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value as of June 30, 2016:

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Corporate bonds	\$ -	\$ 46,427,703	\$ -	\$ 46,427,703
Common and preferred stock	298,386,454	17,274,269	312	315,661,035
U.S. government securities	35,964,395	19,659,216	-	55,623,611
Financial Agreements	-	-	35,454	35,454
Collateralized mortgage obligations	-	42,850,766	-	42,850,766
Foreign entity's debt	-	5,594,530	220,768	5,815,298
Municipal obligations	-	4,037,644	-	4,037,644
	<u>\$ 334,350,849</u>	<u>\$ 135,844,128</u>	<u>\$ 256,534</u>	<u>\$ 470,451,511</u>

The following is a summary of activity for the year ended June 30, 2016 for investments measured at fair value based on unobservable measure criteria:

Balance, beginning of year	\$ 266,735
Sales	(42,028)
Investment income received included in income	10,554
Unrealized gain included in income	21,054
Realized gain included in income	219
Balance, end of year	<u>\$ 256,534</u>

**e. ADVANCE FROM THE PHILADELPHIA GAS WORKS**

Payments to beneficiaries are made by PGW through its payroll system. The amount due to PGW at June 30, 2016 of \$4,577,145 represents the cumulative excess of payments made to the retirees and administrative expenses incurred by PGW, over the sum of the Company's required contribution, and reimbursements received from the Plan.

**f. NET PENSION LIABILITY**

The components of the net pension liability of the City of Philadelphia Gas Works Retirement Reserve Fund at June 30, 2016, were as follows (dollar amounts in thousands):

Total pension liability	\$	779,351
Plan fiduciary net position		(483,259)
Net pension liability	\$	<u>296,092</u>
Plan fiduciary net position as a percentage of the total pension liability		62.01%

**Actuarial Assumptions**

The total pension liability was determined by an actuarial valuation as of June 30, 2016 using the following actuarial assumptions:

Salary increases	4.5 percent for the current year and for subsequent years
General inflation	2 percent
Investment rate of return including inflation	7.30 percent, net of pension plan investment expense,

Mortality rates were based on the RP-2014 Combined Mortality Table for Males and Females with adjustments for mortality improvements based on Scale MP-2015.

The actuarial assumptions used for the Plan year ended June 30, 2016 were based on the results of an actuarial experience study for the period September 1, 2015 – June 30, 2016.

**Change in Assumptions**

Total pension liability reflects an increase of approximately \$27 million as a result of change in actuarial assumptions for the Plan year ended June 30, 2016. The mortality table was changed from RP-2000 IRS PPA @ 2014 Mortality Tables for Males and Females to the RP-2014 mortality table generationally projected with Scale MP-2015 to better reflect actual and future mortality experience. The discount rate of the Plan was reduced from 7.65 to 7.30 for the year ended June 30, 2016.

**Discount Rate**

The discount rate used to measure the total pension liability was 7.30 percent. The projection of cash flows used to determine the discount rate assumed the contributions from Plan members will be made at the current contribution rate and that contributions from PGW will be made based on the current, actuarially determined funding policy. The long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

**Sensitivity of the Net Pension Liability to Changes in the Discount Rate**

The following table illustrates the impact of interest rate sensitivity on the Net Pension Liability. The net pension liability as of June 30, 2016, the most recent actuarial report, is calculated using the discount rate of 7.30 percent, as well as the Plan's net pension liability if it were calculated using a discount rate that is 1 percent lower (6.30 percent) or 1 percent higher (8.30 percent) than the current rate (dollar amounts in thousands):

	1% Decrease 6.30%	Current Rate 7.30%	1% Increase 8.30%
Total pension liability	\$ 870,319	\$ 779,351	\$ 703,554
Plan fiduciary net position	(483,259)	(483,259)	(483,259)
Net pension liability	\$ 387,060	\$ 296,092	\$ 220,295

#### g. RISK AND UNCERTAINTIES

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and those changes could materially affect the amounts reported in the statement of fiduciary net position.

Plan contributions are made and the actuarial present value of accumulated plan benefits are reported based on certain assumptions pertaining to interest rates, inflation rates and employee demographics, all of which are subject to change. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near term would be material to the financial statements.

#### **Interest Rate Risk:**

Interest rate risk is the largest risk faced by an investor in the fixed income market. The price of a fixed income security generally moves in the opposite direction of the change in interest rates. Securities with long maturities are highly sensitive to interest rate changes. The Plan's fixed income investments are as follows:

(in thousands of USD)

	Below 1 year	1 to 3 years	3 to 5 years	5 to 10 years	10 to 15 years	15 to 20 years	20 to 25 years	25 years and over
US Govt. Treasuries	2,287	5,971	2,191	27,178	-	-	-	1,303
US Govt. Agencies	-	18,537	633	-	490	-	-	-
Municipal Bonds	-	284	438	1,894	1,101	-	321	-
Corporate Bonds	\$ 1,077	\$ 7,872	\$ 5,122	\$ 19,657	\$ 1,911	\$ 2,174	\$ 2,395	\$ 3,480
CDO's	-	2,077	929	4,851	1,801	8,229	4,329	20,403
Foreign Debt	-	853	1,315	2,475	-	228	-	784
	\$ 3,364	\$ 35,594	\$ 10,628	\$ 56,055	\$ 5,303	\$ 10,631	\$ 7,045	\$ 25,970

#### **Custodial Credit Risk:**

In the event of counter-party failure, the Plan may not be able to recover the value of its investment or collateral securities that are in the possession of an outside party. Investment securities are exposed to custodial credit risk if the securities held by the counterparty or counterparty's trust department, are uninsured and are not registered in the name of the Plan. The Plan requires that all investments be clearly marked as to ownership, and to the extent possible, be registered in the name of the Plan. Certain investments may be held by the managers in the Plan's name.

#### **Credit Risk:**

Credit Risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligation. The Plan's rated debt investments as of June 30, 2016 were rated by Moody's, a nationally recognized statistical rating agency and are presented below using Moody's rating scale:

(in thousands of USD)

Moody's Credit Rating	U.S. Government Securities	U.S. Government Agency Securities	Municipal Bonds	Corporate Bonds	Collateralized Debt Obligations	Foreign Debt	Total
A1	\$ -	\$ -	\$ -	\$ 1,956	\$ 671	\$ 357	\$ 2,984
A2	-	-	-	3,499	463	386	4,348
A3	-	-	321	9,234	91	502	10,148
AA1	-	-	749	1,093	161	-	2,004
AA2	-	-	-	2,099	-	217	2,316
AA3	-	-	2,251	2,376	-	203	4,830
AAA	38,700	17,689	-	-	2,183	334	58,905
B1	-	-	-	-	-	283	283
B2	-	-	-	135	-	-	135
B3	-	-	-	-	-	106	106
BA1	-	-	-	2,311	146	510	2,967
BA2	-	-	-	762	-	-	762
BA3	-	-	-	107	-	181	289
BAA1	-	-	438	7,942	184	224	8,786
BAA2	-	-	279	4,319	313	1,095	6,005
BAA3	-	-	-	6,209	321	533	7,062
CAA1	-	-	-	566	48	-	614
CAA2	-	-	-	110	-	-	110
N/R	231	1,970	-	973	38,039	725	41,938
	\$ 38,931	\$ 19,659	\$ 4,038	\$ 43,691	\$ 42,620	\$ 5,656	\$ 154,592

#### Concentration of Credit Risk:

Concentration of credit risk is the risk of substantial loss if investments are concentrated in one issuer. As of June 30, 2016 no single investment, not guaranteed by the U.S. government exceeds 5 percent of the Plan's net fiduciary financial position.

#### B. DISCRETELY PRESENTED COMPONENT UNITS

##### (1) Philadelphia Gas Works

###### a. Plan Description

See Footnote IV. A. (2) Philadelphia Gas Works (PGW) Plan – a. Plan Description

###### b. Benefits Provided

See Footnote IV. A. (2) Philadelphia Gas Works (PGW) Plan – b. Benefits Provided

###### c. Employees Covered by Benefit Terms

See Footnote IV. A. (2) Philadelphia Gas Works (PGW) Plan – a. Plan Description

###### d. Contributions

See Footnote IV. A. (2) Philadelphia Gas Works (PGW) Plan – d. Summary of Significant Accounting Policies and Plan Asset Matters – Funding Policy and Employee Contributions

###### e. Net Pension Liability

The Company's net pension liability as of August 31, 2016 and 2015 were measured as of June 30, 2016 and 2015, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of June 30, 2016 and June 30, 2015, respectively.

The total pension liability was determined using the entry age normal actuarial method and the following actuarial assumptions:

	<u>2016</u>	<u>2015</u>
Inflation	2.00%	2.00%
Salary increases	4.50	4.50
Investment rate of return	7.30	7.65

*Mortality rates.* Mortality rates for FY 2015 were based on the RP-2014 mortality tables for males and females generationally projected with scale MP-2014. Mortality rates for FY 2016 were based on the RP-2014 mortality tables for males and females generationally projected with scale MP-2015.

*Long-term rate of return.* The long-term expected rate of return on Pension Plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of Pension Plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by expected inflation. The target allocation and best estimates of arithmetic real rates of return for each major asset class for FY 2016 are summarized in the following table:

<u>Asset class</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Target</u>	<u>Expected annual return</u>
Domestic equity	35.0%	55.0%	45.0%	9.0%
International equity	10.0	30.0	20.0	9.1
Fixed Income	25.0	45.0	35.0	5.6
Cash equivalents	—	10.0	—	—
			<u>100.0%</u>	

*Discount rate.* The discount rate used to measure the total pension liability at June 30, 2016 and 2015 was 7.30% and 7.65%, respectively. The projection of cash flows used to determine the discount rate assumed that employee contributions will be made at the current contribution rate and that Company contributions will be made at rates equal to the difference between actuarially determined contribution rates and the employee contributions. Based on those assumptions, the Pension Plan's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the long-term expected rate of return on Pension Plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

**Changes in Net Pension Liability**  
(Thousands of U.S. dollars)

	<b>Increase (decrease)</b>		
	<b>Total pension liability</b>	<b>Plan fiduciary net position</b>	<b>Net pension liability</b>
	<b>(a)</b>	<b>(b)</b>	<b>(a)-(b)</b>
Balances at September 1, 2014	\$ 677,401	\$ 513,145	\$ 164,256
Changes for the year:			
Service cost	4,890	-	4,890
Interest	52,377	-	52,377
Differences between expected and actual experience	17,961	-	17,961
Contributions-employer	-	21,106	(21,106)
Contributions-employee	-	393	(393)
Net investment income	-	24,472	(24,472)
Benefit payments, including refunds of employee contributions	(46,917)	(46,917)	-
Administrative expenses	-	(1,480)	1,480
Change in assumptions	44,876	-	44,876
Net changes	73,187	(2,426)	75,613
Balances at August 31, 2015	<u>\$ 750,588</u>	<u>\$ 510,719</u>	<u>\$ 239,869</u>
Balances at September 1, 2015	\$ 750,588	\$ 510,719	\$ 239,869
Changes for the year:			
Service cost	5,399	-	5,399
Interest	55,903	-	55,903
Differences between expected and actual experience	(8,840)	-	(8,840)
Contributions-employer	-	21,123	(21,123)
Contributions-employee	-	602	(602)
Net investment income	-	2,872	(2,872)
Benefit payments, including refunds of employee contributions	(50,447)	(50,447)	-
Administrative expenses	-	(1,611)	1,611
Change in assumptions	26,748	-	26,748
Net changes	28,763	(27,461)	56,224
Balances at August 31, 2016	<u>\$ 779,351</u>	<u>\$ 483,258</u>	<u>\$ 296,093</u>

*Sensitivity of the net pension liability to changes in the discount rate:*

The following presents the net pension liability of the Company at June 30, 2016, calculated using the discount rate of 7.30%, as well as what the Company's net pension liability as of August 31, 2016 would be if it were calculated using a discount rate that is 1-percentage-point lower (6.30%) or 1-percentage point higher (8.30%) than the current rate:

	<b>1% Decrease</b>	<b>Current discount rate</b>	<b>1% Increase</b>
	<b>6.30%</b>	<b>7.30%</b>	<b>8.30%</b>
Net pension liability	\$ 387,060	\$ 296,093	\$ 220,296
(thousands of U.S. dollars)			

The following presents the net pension liability of the Company at June 30, 2015, calculated using the discount rate of 7.65%, as well what the Company's net pension liability as of August 31, 2015 would have been if it were calculated using a discount rate that is 1-percentage-point lower (6.65%) or 1-percentage point higher (8.65%) than the current rate:

	1% Decrease 6.65%	Current discount rate 7.65%	1% Increase 8.65%
Net pension liability	\$ 326,719	\$ 239,869	\$ 167,415
(thousands of U.S. dollars)			

*Pension Plan fiduciary net position.* Detailed information about the Pension Plan's fiduciary net position is available in the separately issued Pension Plan financial report.

**f. Pension Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions**

For the years ended August 31, 2016 and 2015, the Company recognized pension expense of \$62.3 million and \$43.7 million, respectively. At August 31, 2016 and 2015, the Company reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources (thousands of U.S. dollars):

	August 31, 2016		August 31, 2015	
	Deferred outflows of resources	Deferred inflows of resources	Deferred outflows of resources	Deferred inflows of resources
Differences between expected and actual experience	\$ 61,232	\$ -	\$ 44,377	\$ -
Changes of assumptions	-	-	33,572	-
Net difference between projected and actual earnings on pension plan investments	21,278	-	-	(11,653)
Contributions made after measurement date	5,533	-	179	-
Total	<u>\$ 88,043</u>	<u>\$ -</u>	<u>\$ 78,128</u>	<u>\$ (11,653)</u>

The \$5.5 million reported as deferred outflows of resources related to employer contributions made after the measurement date as of June 30, 2016 will be recognized as a reduction of the net pension liability in FY 2017. Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows (thousands of U.S. dollars):

**Schedule of Employer's Recognition of  
Net Deferred Outflows and Deferred Inflows**

Fiscal year:		
2017	\$	36,730
2018		24,617
2019		14,155
2020		7,007
2021		-
Thereafter		-
Total	\$	<u>82,509</u>

**g. Fair Value Measurements**

See Footnote IV. A. (2) Philadelphia Gas Works (PGW) Plan – d. Disclosures About Fair Value of Financial Instruments

**(2) School District of Philadelphia**

**a. Plan Description**

Public School Employees' Retirement System (the System) is a governmental cost-sharing multiple-employer defined benefit plan that provides retirement benefits to public school employees of the Commonwealth of Pennsylvania. The members eligible to participate in the System include all full-time public school employees, part-time hourly public school employees who render at least 500 hours of service in the school year, and part-time per diem public school employees who render at least 80 days of service in the school year in any of the reporting entities in Pennsylvania. PSRS issues a publicly available financial report that can be obtained at [www.psers.state.pa.us](http://www.psers.state.pa.us).

**b. Benefits provided:**

The System provides retirement and disability and death benefits. Members are eligible for monthly retirement benefits upon reaching (a) age 62 with at least 1 year of credited service; (b) age 60 with 30 or more years of credited service; or (c) 35 or more years of service regardless of age. Act 120 of 2010 (Act 120) preserves the benefits of existing members and introduced benefit reductions for individuals who become new members on or after July 1, 2011. Act 120 created two new membership classes- (1) Membership Class T-E (Class T-E) and (2) Membership Class T-F (Class T-F). To qualify for normal retirement, Class T-E and Class T-F members must work until age 65 with a minimum of 3 years of service or attain a total combination of age and service that is equal to or greater than 92 with a minimum of 35 years of service. Benefits are generally equal to 2% or 2.5%, depending upon membership class, of the member's final average salary (as defined in the Pennsylvania Public School Code (Code) of multiplied by the number of years of credited service. For members whose membership started prior to July 1, 2011, after completion of five years of service, a member's right to defined benefits is vested and early retirement benefits may be elected. For Class T-E and T-F members, the right to benefits is vested after ten years of service.

Participants are eligible for disability retirement benefits after completion of credited service. Such benefits are generally equal to 2% or 2.5%, depending upon membership class, of the member's final average salary (as defined in the Code) multiplied by the number of years of credited service, but not less than one-third of such salary nor greater than the benefit the member would have had at normal retirement age. Members over normal retirement age may apply for disability benefits.

Death benefits are payable upon the death of an active member who has reached age 62 with at least one year of credited service (age 65 with at least three years of credited service for Class T-E and T-F members) or who has at least five years of credited services (ten years for Class T-E and T-F members). Such benefits are actuarially equivalent to the benefit that would have been effective if the member had retired on the day before death.



**c. Contributions**

Members Contributions:

Active members who joined prior to July 22, 1983, contribute at 5.25 % (Membership Class T-C) or at 6.50 % (Membership Class T-D) of the member's qualifying compensation.

Members who joined the System on or after July 22, 1983 and who were active or inactive as of July 1, 2001 contribute at 6.25 % (Membership Class T-C) or 7.50 % (Membership Class T-D) of the member's qualifying compensation.

Members who joined the System after June 30, 2001 and before July 1, 2011 contribute at 7.50 % (automatic Membership Class T-D). For all new hires and for members who elected Class T-D membership, the higher contribution rates began with service rendered on or after January 1, 2002.

Members who joined the System after June 30, 2011, automatically contribute at the Membership Class T-E rate of 7.50% (base rate) of the member's qualifying compensation. All new hires after June 30, 2011, who elect Class T-F Membership, contribute at 10.30% (base rate) of the member's qualifying compensation. Membership Class T-E and T-F are affected by a "shared risk" provision in Act 120 of 2010 that in future fiscal years could cause the Membership Class T-E contribution rate to fluctuate between 7.50% and 9.50% and Membership Class T-F contribution rate to fluctuate between 10.30% and 12.30%.

Employer's Contributions:

The School District of Philadelphia' contractually required contribution rate for fiscal year ended June 30, 2016 was 25.00% of covered payroll, actuarially determined as an amount that, when combined with employee contributions, is expected to finance the costs of benefits earned by employees during the year, with an additional amount to finance any unfunded accrued liability. Contributions to the PSERS pension plan from the School District were \$216,738,487 for the year ended June 30, 2016.

Commonwealth Contributions:

The Commonwealth reimburses the School District 50 percent of the retirement cost for employees hired prior to July 1, 1994 and a percentage equal to the greater of 50 percent or the School District's market value/personal income aid ratio for employees hired after June 30, 1994. The School District's market/personal income aid ratio for Fiscal Year 2016 was 73.63 percent.

**d. Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions**

- (a) At June 30, 2016, the District reported a liability of \$3,038,612,001 for its proportionate share of the net pension liability of which \$2,993,316,218 was recognized. The net pension liability was measured as of June 30, 2015, and the total pension liability used to calculate the net pension liability was determined by rolling forward the System's total pension liability as of June 30, 2014 to June 30, 2015. The District's proportion of the net pension liability was calculated using the employer's one-year covered payroll as it relates to the total one-year reported covered payroll. At June 30, 2015, the District's proportion was 7.0151 percent, which was a decrease of 0.5150 percent from its proportion measured as of June 30, 2014.
- (b) For the year ended June 30, 2016, the District recognized pension expense of \$216,738,487.
- (c) At June 30, 2016, the District reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

<i>(Dollars Amounts in Thousands)</i>	<b>Deferred Outflows of Resources</b>	<b>Deferred Inflows of Resources</b>
Difference between expected and actual experience		12,539
Net difference between projected and actual investment earnings		6,150
Change in proportions		430,201
Difference between employer contributions and proportionate share of total contributions		3,211
Contributions subsequent to the measurement date	216,738	
<b><u>Totals:</u></b>	<b><u>216,738</u></b>	<b><u>452,101</u></b>

Deferred outflows of resources for contributions made subsequent to the measurement date was \$216,738,487, and will be recognized as a reduction of net pension liability in the actuarially year ended June 30, 2016.

The \$452,101,467 reported as deferred inflows related to pensions will be recognized in pension expense as follows:

<u>Year ended June 30</u>	
2017	142,831,148
2018	142,831,148
2019	142,831,148
<u>2020</u>	<u>23,608,023</u>
<b><u>Total</u></b>	<b><u>452,101,467</u></b>

#### Actuarial assumptions

The total pension liability as of June 30, 2015 was determined by rolling forward the System's total pension liability as of June 30, 2014 actuarial valuation to June 30, 2015 using the following actuarial assumptions, applied to all periods included in the measurement:

- Actuarial cost method – Entry Age Normal – level % of pay
- Investment return – 7.50%, includes inflation at 3.00%
- Salary increases – Effective average of 5.50%, which reflects an allowance for inflation of 3.00%, real wage growth of 1%, and merit or seniority increases of 1.50%
- Mortality rates were based on the RP-2000 Combined Healthy Annuitant Tables (male and female) with age set back 3 years for both males and females. For disabled annuitants the RP-2000 Combined Disabled Tables (male and female) with age set back 7 years for males and 3 years for females.

The actuarial assumptions used in the June 30, 2014 valuation were based on the experience study that was performed for the five-year period ending June 30, 2010. The recommended assumption changes based on this experience study were adopted by the Public School Employees' Retirement System (PSERS) Board at its March 11, 2011 Board meeting, and were effective beginning with the June 30, 2011 actuarial valuation.

The long-term expected rate of return on pension plan investments was determined using a building-block meth-

od in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

The pension plan's policy in regard to the allocation of invested plan assets is established and may be amended by the Board. Plan assets are managed with a long-term objective of achieving and maintaining a fully funded status for the benefits provided through the pension

Asset Class	Target Allocation	Long-term Expected Real Rate of Return
Public markets global equity	22.50%	4.80%
Private markets (equity)	15.00%	6.60%
Private real estate	12.00%	4.50%
Global fixed income	7.50%	2.40%
U.S. long treasuries	3.00%	1.40%
TIPS	12.00%	1.10%
High yield bonds	6.00%	3.30%
Cash	3.00%	0.70%
Absolute return	10.00%	4.90%
Risk parity	10.00%	3.70%
MLPs/Infrastructure	5.00%	5.20%
Commodities	8.00%	3.10%
Financing (LIBOR)	-14.00%	1.10%
	<u>100.00%</u>	

The above was the Board's adopted asset allocation policy and best estimates of geometric real rates of return for each major asset class as of June 30, 2015.

Discount rate: The discount rate used to measure the total pension liability was 7.50%. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current contribution rate and that contributions from employers will be made at contractually required rates, actuarially determined. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

**e. Sensitivity of the District's proportionate share of the net pension to changes in the discount rate:**

The following presents the net liability, calculated using the discount rate of 7.50%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage point lower (6.50%) or 1-percentage point higher (8.50%) than the current rate:

(Dollars in Thousands)	1% Decrease <u>6.50%</u>	Current Discount Rate <u>7.50%</u>	1% Increase <u>8.50%</u>
District's proportionate share of the net pension liability	3,745,382	3,038,612	2,444,571

**f. Pension plan fiduciary net position:**

Detailed information about PSERS' fiduciary net position is available in PSERS Comprehensive Annual Financial Report which can be found on the System's website at [www.psers.state.pa.us](http://www.psers.state.pa.us).

**g. Summary of Significant Accounting Policies**

For purposes of measuring the net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the Public School Employees' Retirement System (PSERS) and additions to/deductions from PSERS's fiduciary net position have been determined on the same basis as they are reported by PSERS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

**2. ACCUMULATED UNPAID SICK LEAVE**

City and certain component unit employees are credited with varying amounts of sick leave according to type of employee and/or length of service. City employees may accumulate unused sick leave to predetermined balances. SDP employees have an unlimited maximum accumulation, and Gas Works' employees' sick leave is non-cumulative. Non-uniformed employees (upon retirement only) and uniformed employees (upon retirement or in case of death while on active duty) are paid varying amounts ranging from 25% to 50% of unused sick time, not to exceed predetermined amounts. Employees, who separate for any reason other than indicated above, forfeit their entire sick leave. The City budgets for and charges the cost of sick leave as it is taken.

**3. OTHER POST EMPLOYMENT BENEFITS (OPEB)**

**A. PRIMARY GOVERNMENT**

**Plan description:** The City of Philadelphia self-administers a single employer, defined benefit plan and provides health care for five years subsequent to separation for eligible retirees. Certain union represented employees may defer their coverage until a later date, but the amount that the City pays for their health care is limited to the amount that the City would have paid at the date of their retirement. The City also provides lifetime insurance coverage for all eligible retirees. Firefighters are entitled to \$7,500 coverage and all other employees receive \$6,000 in coverage. The plan does not issue stand-alone financial statements, and the accounting for the plan is reported within the financial statements of the City of Philadelphia.

**Funding Policy:** The City's funding policy is to pay the net expected benefits for the current retirees. To provide health care coverage, the City pays a negotiated monthly premium for retirees covered by union contracts and is self-insured for non-union employees. The City's contributions are estimated to be about \$107.2 million for fiscal year ending June 30, 2016.

**Annual OPEB Cost and Net OPEB Obligation:** The City's annual other post-employment benefit (OPEB) expense is calculated based on the annual required contribution of the employer (ARC), an amount actuarially determined in accordance with the parameters of GASB Statement No. 45. The ARC represents a level of funding, which if paid on an ongoing basis, is projected to cover normal cost each year and amortize any unfunded actuarial liabilities over a period not to exceed thirty (30) years. The following table shows the components of the City's annual OPEB cost for the year, the amount actually contributed to the plan and changes in the net OPEB obligation:

<i>(Amounts in Thousands of USD)</i>	
Annual required contribution	136,268
Interest on net OPEB obligation	11,317
Adjustment to ARC	(10,197)
Annual OPEB cost	137,388
Payments made	(107,200)
Increase/(Decrease) in net OPEB Obligation	30,188
Net OPEB obligation - beginning of year	266,286
Net OPEB obligation - end of year	296,474

The City of Philadelphia's annual OPEB cost, the percentage of annual OPEB cost contributed to the Plan, and the net OPEB obligation for the fiscal year ended June 30, 2016 was as follows:

(Amounts in thousands USD)

Fiscal Year Ended	Annual OPEB Cost	Percentage of Annual OPEB Contributed	Net OPEB Obligation
6/30/2016	\$ 137,388	78%	\$ 296,474
6/30/2015	\$ 133,053	72%	\$ 266,286
6/30/2014	\$ 129,318	52%	\$ 228,533

**Funded Status and Funding Progress:** As of July 1, 2015, the most recent actuarial valuation date, the City is funding OPEB on a pay as you go basis and accordingly, the unfunded actuarial accrued liability for benefits was \$1.77 billion. The covered annual payroll was \$1.54 billion and the ratio of the UAAL to the covered payroll was 114.8%.

The required schedule of funding progress immediately following the notes to the financial statements presents multi-year trend information about whether the actuarial value of the plan assets is increasing or decreasing over time relative to the actuarial accrued liability for benefits.

The projections of future benefit payments for an ongoing plan obligation involves estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Amounts determined regarding the funded status of the obligation and the contributions of the employer are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future.

**Actuarial Methods and Assumptions:** Projections of costs for financial reporting purposes are based on the types of benefits provided under the terms of the substantive plan at the time of each valuation and on the pattern of sharing costs between the employer and plan members to that point.

Costs were determined according to the individual entry age actuarial cost method with the attribution period ending at each decrement age. This is consistent with the cost method used for the City of Philadelphia Municipal Retirement System. The city uses a level percent open approach as its method of amortization. Unfunded liabilities are funded over a 30-year period as a level percentage of payroll which is assumed to increase at a compound annual rate of 4.25% per year. The current plan incorporates the following assumptions; a 3.30% Rate of Salary increases; and, a 4% Ultimate Rate of Medical Inflation.

## B. COMPONENT UNITS

### School District of Philadelphia (SDP) OPEB

From an accrual accounting perspective, the cost of postemployment life insurance benefits, like the cost of pension benefits, generally should be associated with the periods in which the costs occur, rather than in the future when they will be paid. In adopting the requirements of GASB Statement No. 45, the **SDP** recognizes the costs of postemployment life insurance in the year when the employee services are received, reports the accumulated liability from prior years, and provides information useful in assessing potential demands on the **SDP's** future cash flows. Recognition of the liability accumulated from prior years is amortized over no more than 30 years.

#### Plan Description:

The **SDP** provides up to \$2,000 of life insurance coverage for retired and disabled employees. A retired employee is eligible for this benefit if covered for 10 years as an active employee and retired at age 60 with 30 years of service or aged 62 with 10 years of service or 35 years of service regardless of age. Effective November 1, 2013, active employees who become disabled (total and permanent) prior to satisfying the retirement eligibility conditions for postretirement life insurance benefits are no longer eligible for postretirement benefit provided by the District. Employees who were granted disability retirement from PSERS and were approved by the insurance company providing the coverage prior to November 1, 2013 continue to be eligible for postretirement life insurance benefits. An unaudited copy of the single-employer life insurance benefit plan can be obtained by writing to School District of Philadelphia, 440 North Broad Street, Philadelphia, PA 19130; Attention: Employee Benefits Management.

#### Funding Policy:

The **SDP** is not required by law or contractual agreement to provide funding for the life insurance benefits other than the pay-as-you-go amount necessary to provide current benefits to retirees and eligible disabled employees. The numbers of eligible participants enrolled to receive such benefits as of June 30, 2016, the effective

date of the biennial OPEB valuation, follows. There have been no significant changes in the number covered or the type of coverage since that date.

	Number of Employees	Average Age
<b>Active</b>		
Represented	12,075	45.8
Non-represented	817	47.4
<b>Retirees</b>	10,328	77.2
<b>Disabled</b>	69	60.3
<b><u>Total</u></b>	<b><u>23,289</u></b>	<b><u>57.7</u></b>

**Annual OPEB Cost and Net OPEB Obligation:**

The **SDP's** annual OPEB cost (expense) is calculated based on the annual required contribution of the employer (ARC), an amount that was actuarially determined by the Entry Age Normal Actuarial Cost Method (one of the actuarial cost methods in accordance with the parameters of GASB Statement No. 45). Under this method, a contribution is determined that consists of the normal cost and the unfunded actuarial liability payment. The normal cost for each employee is derived as a level contribution from entry age to assumed retirement age. The accumulation of normal costs for service already completed is the actuarial accrued liability (AAL), which under GASB Statement No. 45 may be amortized over no more than 30 years. The District has elected to amortize the OPEB obligation as an open amortization period, which is recalculated at each biennial actuarial valuation date, amortized over a 30-year period for the valuation period ending June 30, 2016. There was a change in actuarial assumptions since the last biennial actuarial valuation. The payroll growth assumption was eliminated as the District is now using level dollar amortization of the unfunded liability.

The following table shows the elements of **SDP's** annual OPEB cost for the year, the amount paid on behalf of the plan, and changes in **SDP's** net OPEB obligation to the plan:

Normal Cost	\$ 84,875
Amortization of Unfunded Actuarial Accrued Liability (UAAL)	<u>913,395</u>
Annual Required Contribution (ARC)	998,270
Interest on Net OPEB Obligation	36,658
Adjustment to the ARC	<u>(62,342)</u>
Annual OPEB Cost	<u><u>\$ 972,586</u></u>
 Net OPEB Obligation as of June 30, 2015	 \$ 1,221,930
 Annual OPEB Cost	 972,586
Employer Contributions	<u>(539,601)</u>
Increase/(Decrease) in net OPEB Obligation	\$ 432,985
 Net OPEB Obligation as of June 30, 2016	 <u><u>\$ 1,654,915</u></u>

The **SDP's** annual OPEB cost, the percentage of annual OPEB cost contributed to the Plan, and the net OPEB obligation for the fiscal year ending June 30, 2016 was as follows:

Year Ended June 30	Annual OPEB Cost (APC)	Employer Contribution	Percentage of APC Contributed	Net OPEB Obligation
2014	990,364	567,888	57.30%	\$ 810,906
2015	981,837	570,813	58.10%	\$ 1,221,930
2016	\$972,586	\$539,601	55.50%	\$ 1,654,915

**Basis of Accounting:**

As defined by GASB Statement No. 45, if the amount of expenditures recognized during the current year is not equal to the annual OPEB cost, the difference is added or subtracted to the net obligation. The School District's policy is to recognize an expense equal to what is contributed as long as it satisfies the requirement for GASB Statement No. 45.

**Funded Status and Funding Progress:**

As of June 30, 2016, the most recent actuarial valuation date, the plan was 0.0% funded. The actuarial accrued liability of \$18.4 million and the actuarial value of assets was \$0, resulting in an unfunded actuarial accrued liability (UAAL) of \$18.4 million.

Most Recent Actuarial	Active Covered	Unfunded	UAAL as a Percentage of
Valuation Date	Payroll	Actuarial Accrued Liability (UAAL)	Covered Payroll
6/30/2016	\$722,662,580	\$18,440,073	0.03%
6/30/2014	871,663,661	18,114,395	0.02%
6/30/2012	751,086,581	17,956,061	0.02%

**Actuarial Methods and Assumptions:**

The actuarial assumptions used in the June 30, 2016 OPEB actuarial valuations are those specific to the OPEB valuations. Actuarial valuations involve estimates of the values of reported amounts, assumptions about the probability of events far into the future, and are subject to continual revision. Actuarial calculations reflect a long-term perspective.

Discount Rate: 3.00% per year, compounded annually, based on anticipated investment returns on short-term investments as of June 30, 2016.

Mortality: Pre-termination and post-termination healthy annuitant rates are projected on a generational basis using Scale AA. As generational tables, they reflect mortality improvements both before and after the measurement date.

Pre-termination: RP-2000 Employee Mortality Table for Males and Females.

Post-termination Healthy Lives: RP-2000 Healthy Annuitant mortality table for males and females.

Post-termination Disabled Lives: RP-2000 Disabled Annuitant mortality table for males and females. No provision was made for future mortality improvements for disabled lives.

Termination: Rates which vary by age and years of services were used. Sample rates are shown below:

<u>If less than 5</u> <u>years of Service</u>		<u>If 5 or more</u> <u>years of Service</u>	
Years of Service	Rate	Age	Rate
< 1	24.49%	25	24.75%
1 - 2	25.23%	30	18.01%
2 - 3	16.54%	35	10.98%
3 - 4	14.07%	40	7.91%
4 - 5	10.88%	45	6.71%
		50	4.03%
		55	3.81%
		60	6.40%

Retirement: Retirement rates are the rates utilized in the June 30, 2015 Actuarial Valuation for the Pennsylvania Public School Employees' Retirement System and vary by age, service, and gender. Members are eligible for early retirement at age 55 with 25 years of service. Class T-C and T-D members are eligible for superannuation

retirement at the earlier of (1) age 62 with 3 years of service, (2) age 60 with 30 years of service, or (3) any age with 35 years of service. Class T-E and T-F members are eligible for superannuation retirement at the earlier of (1) age 65 with 3 years of service or (2) any combination of age and service that totals 92 with at least 35 years of service. Sample rates are shown below:

Sample Early Retirement Rates			Sample Superannuation Retirement Rates		
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Age</u>	<u>Male</u>	<u>Female</u>
55	15%	15%	55	30%	30%
60	12%	15%	60	28%	30%
			65	20%	25%
			74	100%	100%

Disability: Disability rates are the rates utilized in the June 30, 2015 Actuarial Valuation for the Pennsylvania Public School Employees' Retirement System and vary by age and gender. In addition, no disabilities are assumed to occur at age 60 or later. Sample rates are shown below:

<u>Percentage Disability Incidence</u>		
<u>Attained Age</u>	<u>Male</u>	<u>Female</u>
25	0.024%	0.030%
30	0.024%	0.040%
35	0.100%	0.060%
40	0.180%	0.100%
45	0.180%	0.150%
50	0.280%	0.200%
55	0.430%	0.380%

Life Insurance Benefits Claimed: All life insurance benefits are assumed to be claimed upon the retiree's death.

Life Insurance Coverage while Disabled: The maximum amount of life insurance of \$45,000 for non-represented employees or \$25,000 for represented employees was assumed to be in effect for future disabled retirees prior to age 65. Actual amounts were used for current disabled retirees prior to age 65.

Life Insurance Coverage while Employed: Only active employees who have life insurance coverage as of June 30, 2016 are included in this valuation. This valuation assumes they will continue to have life insurance coverage until retirement or disability and be eligible for the postretirement life insurance coverage upon retirement or disability. Any current active employee without life insurance coverage is assumed not to elect to have life insurance coverage prior to retirement or disability.

Benefits Not Valued: The accelerated death benefit was not valued as the estimated liability impact was de minimus as only disabled retirees prior to age 65 can elect this benefit.

Special Data Adjustments: None

#### Philadelphia Gas Works (PGW) OPEB

##### Plan Description:

**PGW** sponsors a single employer defined benefit healthcare plan and provides postemployment healthcare and life insurance benefits to approximately 2,190 participating retirees and their beneficiaries and dependents in FY 2016, in accordance with their retiree medical program. The annual covered payroll (which was substantially equal to total payroll) was \$113.0 million at August 31, 2016.

**PGW** pays the full cost of medical, basic dental, and prescription coverage for employees who retired prior to December 1, 2001. Employees who retire after December 1, 2001 are provided a choice of three plans at **PGW's** expense and can elect to pay toward a more expensive plan. Retirees may also contribute toward enhanced



dental plan and life insurance coverage. **PGW** pays 100% of the cost for the prescription drug plan after drug co-pays. Union employees hired on or after May 21, 2011 and Non-Union employees hired on or after December 21, 2011 are entitled to receive post-retirement medical, prescription, and dental benefits for five years only. Currently, **PGW** provides for the cost of healthcare and life insurance benefits for retirees and their beneficiaries on a pay-as-you-go basis.

Total expense incurred for healthcare and life insurance related to retirees amounted to \$28.5 million in FY 2016. In addition, **PGW** expensed \$18.5 million of funding for the OPEB Trust. Retirees contributed \$0.3 million towards their healthcare in FY 2016. These contributions represent the additional cost of healthcare plans chosen by retirees above the basic plan offered by **PGW**. Total premiums for group life insurance were \$2.4 million in FY 2016 which included \$2.0 million for retirees. Retirees contributed \$0.2 million towards their life insurance in FY 2016.

**Annual Postemployment Benefit Cost, Contributions Required, and Contributions Made:**

The amount paid by **PGW** for retiree benefits in FY 2016 was \$49.6 million, consisting of \$29.3 million of healthcare expenses, \$1.8 million of life insurance expenses, and \$18.5 million contributed to the OPEB trust. The difference between the AOC and **PGW's** contributions resulted in a decrease in the OPEB obligation of \$8.6 million in FY 2016, which was recorded to other non-current liabilities and expensed.

The actuarial accrued liability for benefits at August 31, 2016 was \$489.7 million. The ratio of the unfunded actuarial accrued liability to the covered payroll was 316.8% as of August 31, 2016.

The assumptions used to determine the AOC for the fiscal year 2016 and the funded status of the plan include:

<u>Actuarial cost method</u>	<u>Projected unit credit</u>
Method(s) used to determine the actuarial value of assets	Market value of plan assets held in the OPEB trust
Investment return assumption (discount rate)	7.95%, which represents the long-term expected investment return on OPEB trust assets
Mortality	RP-2014 Mortality Tables with projection scale MP 2015
Amortization method	Level dollar amount
Amortization period	Open period of 30 years

Healthcare cost trend rates are as follows:

<u>Year</u>	<u>Healthcare costs trend rates</u>			
	<u>Medical (pre-65)</u>	<u>Medical (post-65)</u>	<u>Prescription</u>	<u>Dental</u>
2016	7.0%	5.0%	9.5%	4.0%
2017	6.5%	4.5%	8.5%	4.0%
2018	6.0%	4.5%	7.5%	4.0%
2019	5.5%	4.5%	6.5%	4.0%
2020	5.0%	4.5%	5.5%	4.0%
2021+	4.5%	4.5%	4.5%	4.0%

The following table shows the calculation of **PGW's** OPEB liability for FY 2016. The difference between annual OPEB cost (AOC) and contributions made results as an increase or decrease to the net OPEB obligation which is recorded in other non-current liabilities and expensed.

*(Amounts in Thousands of USD)*

Annual required contribution	41,782
Interest on net OPEB obligation	7,156
<u>Adj to annual required contribution</u>	<u>(7,958)</u>
Annual OPEB cost	40,980
 Payments made	 <u>(49,551)</u>
Increase/(Decrease) in net OPEB obligation	(8,571)
 Net OPEB obligation - beginning of year	 <u>90,014</u>
Net OPEB obligation - end of year	<u><u>81,443</u></u>

**PGW's** annual OPEB cost, the percentage of annual OPEB cost contributed to the plan, and the net OPEB obligation for FY 2016 and the preceding years is as follows:

*(Amounts in Thousands of USD)*

Fiscal Year Ended	Annual OPEB Cost	Percentage of Annual OPEB Contributed	Net OPEB Obligation
8/31/2016	\$ 40,980	120.9%	\$ 81,443
8/31/2015	\$ 37,073	131.8%	\$ 90,014
8/31/2014	\$ 37,090	119.6%	\$ 101,788

Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and the plan members) and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce the effects of short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the calculations.

#### 4. PENNSYLVANIA INTERGOVERNMENTAL COOPERATION AUTHORITY

**PICA**, a body corporate and politic, was organized in June 1991 and exists under and by virtue of the Pennsylvania Intergovernmental Cooperation Authority Act for Cities of the First Class (the Act). Pursuant to the Act, **PICA** was established to provide financial assistance to cities of the first class. The City currently is the only city of the first class in the Commonwealth of Pennsylvania. Under the Act, **PICA** is administered by a governing Board consisting of five voting members and two ex officio non-voting members. The Governor of Pennsylvania, the President Pro Tempore of the Pennsylvania Senate, the Minority Leader of the Pennsylvania Senate, the Speaker of the Pennsylvania House of Representatives and the Minority Leader of the Pennsylvania House of Representatives each appoints one voting member to the Board.

The Act provides that, upon **PICA's** approval of a request of the City to **PICA** for financial assistance, **PICA** shall have certain financial and oversight functions. First, **PICA** shall have the power to issue bonds and grant or lend the proceeds thereof to the City. Second, **PICA** also shall have the power, in its oversight capacity, to exercise certain advisory and review powers with respect to the City's financial affairs, including the power to review and approve five-year financial plans prepared at least annually by the City and to certify noncompliance by the City

with its current five-year financial plan (which certification would require the Secretary of the Budget of the Commonwealth of Pennsylvania to cause certain Commonwealth payments due to the City to be withheld).

**PICA** bonds are payable from the proceeds of a **PICA** tax on the wages and income earned by City residents. The City has reduced the amount of wage and earnings tax that it levies on City residents by an amount equal to the **PICA** tax so that the total tax remains the same. **PICA** returns to the City any portion of the tax not required to meet their debt service and operating expenses. In Fiscal 2016 this transfer amounted to \$383.6 million.

## 5. RELATED PARTY TRANSACTIONS

The City is associated, through representation on the respective Board of Directors, with several local governmental organizations and certain quasi-governmental organizations created under the laws of the Commonwealth of Pennsylvania. These organizations are separate legal entities having governmental character and sufficient autonomy in the management of their own affairs to distinguish them as separate independent governmental entities. A list of such related party organizations and a description of significant transactions with the City, where applicable, is as follows:

### A. SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AUTHORITY (SEPTA)

During the year the City provided an operating subsidy of \$74.2 million to SEPTA.

### B. OTHER ORGANIZATIONS

The City provides varying levels of subsidy and other support payments which totaled \$97.62 million during the year to the following organizations:

- Philadelphia Health Management Corporation
- Philadelphia Industrial Development Corporation
- Fund For Philadelphia Incorporated
- Philadelphia Housing Authority

## 6. RISK MANAGEMENT

### A. PRIMARY GOVERNMENT

The City is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The City (except for Aviation Fund operations, the Municipal Authority and PICA) is self-insured for fire damage, casualty losses, public liability, Workers' Compensation and Unemployment Compensation. The Aviation Fund is self-insured for Workers' Compensation and Unemployment Compensation and insured through insurance carriers for other coverage. The City is self-insured for medical benefits provided to employees in the Fraternal Order of Police, its city-administered health plan, the International Association of Fire Fighters and District Council 47.

The City covers all claim settlements and judgments, except for those discussed above, out of the resources of the fund associated with the claim. Claims expenditures and liabilities are reported when it is probable that a loss has occurred and the amount of the loss can be reasonably estimated. These losses include: an estimate of claims that have been incurred but not reported; the effects of specific, incremental claims adjustment expenditures, salvage, and subrogation; and unallocated claims adjustment expenditures.

At June 30, the amount of these liabilities was \$350.3 million for the Primary Government. This liability is the City's best estimate based on available information. Changes in the reported liability since June 30, 2014 resulted from the following:

(Amounts in Millions of USD)

	<b>Beginning Liability</b>	<b>Current Year Claims and Changes In Estimates</b>	<b>Claim Payments</b>	<b>Ending Liability</b>
Fiscal 2014	356.1	244.0	(250.8)	349.3
Fiscal 2015	349.3	296.0	(291.7)	353.6
Fiscal 2016	353.6	216.2	(219.5)	350.3

The City's Unemployment Compensation and Workers' Compensation coverage are provided through its General Fund. Unemployment Compensation and Workers' Compensation coverage are funded by a pro rata charge to the various funds. Payments for the year were \$2.8 million for Unemployment Compensation claims and \$65.3 million for Workers' Compensation claims.

The City's estimated outstanding workers' compensation liabilities are \$271.5 million discounted at 3.5%. On an undiscounted basis, these liabilities total \$353.1 million. These liabilities include provisions for indemnity, medical and allocated loss adjustment expense (ALAE). Excluding the ALAE, the respective liabilities for indemnity and medical payments relating to workers' compensation total \$245.8 million (discounted) and \$321.5 million (undiscounted).

During the last five (5) fiscal years, no claim settlements have exceeded the level of insurance coverage for operations using third party carriers. None of the City's insured losses have been settled with the purchase of annuity contracts.

## B. COMPONENT UNITS

The School District is exposed to various risks related to torts, theft of, damage to, and destruction of assets, errors and omissions, injuries to employees, and natural disasters. As previously noted, the School District is self-insured for casualty losses, public liability, Workers' Compensation, Unemployment Compensation, Weekly Indemnity (salary continuation during employee illness), and employee medical benefits.

The School District maintains property (real and personal, valuable papers and records, fine arts, vehicles on premises and property under construction) insurance to cover losses with a deductible of \$0.5 million except for losses incurred from windstorm, fire, flood and earthquake which has a \$1.0 million and a limit of \$250.0 million per occurrence with certain sub-limits as specified in the policy terms. Also, certain insurance coverage including Accident, Foreign Package Excess Workers' Compensation, Student Professional Liability and Employee Performance bonds are obtained.

The School District reported the long-term portion of its risk management obligations totaling \$132.5 million in the district-wide Statement of Net Position. Self-Insured Medical Benefits and Workers' Compensation coverage is funded by a prorated charge to the various funds while both the School District and covered employees share the cost of Weekly Indemnity and Unemployment Compensation coverage.

Claims expenditures and liabilities are reported when it is probable that a loss has occurred and when the amount of the loss can be reasonably estimated. Losses include an estimate of claims that have been incurred but not reported, the effects of specific incremental claims adjustment expenditures, salvage and subrogation, and unallocated claims adjustment expenditures.

Settled claims covered by commercial insurance have not exceeded the amount of insurance coverage in any of the past three (3) years. There has not been a significant reduction in insurance coverage from coverage in the prior year for any risk category. The School District has not entered into any annuity contracts as part of claims settlements.

At June 30, 2016, the amount of these liabilities totaled \$146.8 million for the City's component units. Changes in the balances of claims and liabilities during the past three (3) years are as follows:

(Amounts in Millions of USD)

	<b>Beginning Liability</b>	<b>Current Year Claims and Changes In Estimates</b>	<b>Claim Payments</b>	<b>Ending Liability</b>
Fiscal 2014	195.9	210.9	(231.6)	175.2
Fiscal 2015	175.2	209.1	(229.7)	154.6
Fiscal 2016	154.6	225.6	(233.4)	146.8

## 7. COMMITMENTS

### A. PRIMARY GOVERNMENT

Encumbrance accounting is utilized to assure effective budgetary control and accountability and to facilitate effective cash planning and control. At year end the amount of open encumbrances for both the current and prior fiscal years were as follows:

<u>Fund</u>	<u>Amounts</u>
General fund	149,242,021
Grants Revenue fund	215,949,343
Community Behavioral Health fund	150,717,417
Water Enterprise funds	444,033,141
Aviation Enterprise funds	185,244,099
<u>Non-Major governmental funds</u>	<u>223,537,427</u>
Total	1,368,723,449

### B. COMPONENT UNITS

The School District's outstanding contractual commitments at June 30, 2016 are summarized as follows:

New Construction and Land	372,881
Environmental Management	369,720
Alterations and Improvements	4,857,525
Major Renovations	1,766
Total	5,601,892

Outstanding contractual commitments in the School District's operating funds at June 30, 2016 are as follows:

Services and Supplies	
General Fund	66,274,486
Intermediate Unit Fund	2,549,757
Total	68,824,243

Categorical Funds encumbrances totaled \$12.5 million at June 30, 2016.

## 8. CONTINGENCIES

### A. PRIMARY GOVERNMENT

#### 1) Claims and Litigation

Generally, claims against the City are payable out of the General Fund, except claims against the City Water Department, City Aviation Division, or Component Units which are paid out of their respective funds and only secondarily out of the General Fund which is then reimbursed for the expenditure. Unless specifically noted otherwise, all claims hereinafter discussed are payable out of the General Fund or the individual Enterprise Fund. The Act of October 5, 1980, P.L. 693, No. 142, known as the "Political Subdivision Tort Claims Act", established a \$500,000 aggregate limitation on damages arising from the same cause of action or transaction or occurrence or series of causes of action, transactions or occurrences with respect to governmental units in the Common-

wealth such as the City. The constitutionality of that aggregate limitation has been upheld by the United States Supreme Court. There is no such limitation under federal law.

Various claims have been asserted against the City and in some cases lawsuits have been instituted. Many of these claims are reduced to judgment or otherwise settled in a manner requiring payment by the City. The aggregate estimate of loss deemed to be probable is approximately \$331.4 million. Of this amount \$35.6 million is charged to the current operations of the Enterprise Funds. The remaining \$295.8 million pertaining to the General Fund is reflected in the Government Wide Statements.

In addition to the above, there are certain lawsuits against the City for which an additional loss is reasonably possible. These lawsuits relate to General Fund and Enterprise Fund operations. The aggregate estimates of the loss which could result if unfavorable legal determinations were rendered against the City with respect to those lawsuits is approximately \$63.5 million to the General Fund and \$9.7 million to the Enterprise Funds.

Significant cases included in the current litigation against the City are as follows:

**Eugene Gilyard v. City of Philadelphia**

- Plaintiffs Eugene Gilyard and Lance Felder were convicted of the murder of Thomas Keal in 1997. They spent approximately 16 years in prison. Plaintiffs were granted post-conviction relief in the form of a new trial after a man came forward and claimed to have murdered Keal. The District Attorney declined to retry plaintiffs for the murder and they were released from prison. Plaintiffs have now brought this claim for Malicious Prosecution. Plaintiffs claim that a witness for the prosecution was coerced into identifying one of the plaintiffs as a man he saw in the area of the murder with a gun. Specifically, they claim that detectives told him which picture to select from a photo array. Plaintiffs also claim that the affidavit of probable cause seeking an arrest warrant was intentionally falsified. The affidavit included the selection of plaintiffs from a photo array by a witness. Plaintiffs claim that selection never occurred. Finally, plaintiffs claim generally that the detectives failed to investigate alternative suspects. Specifically, they claim that a witness identified two men named "Rolex" and "Tizz" that were in the area of the murder asking questions about Keal prior to his death. Discovery closes on May 19, 2017. The likelihood of a verdict against the City is difficult to predict at this time. However, in the event of such a verdict, damages could reach \$8 million given the time Plaintiffs spent in prison.

**Anthony Wright v. City of Philadelphia**

- The Wright case is a civil rights action arising from Mr. Wright's retrial for the rape and murder of a 77-year-old woman. In 1993, Mr. Wright was convicted of the rape and murder of Louis Talley and sentenced to life without parole. After serving nearly 25 years in prison, Mr. Wright was acquitted of the rape and murder by a jury at his retrial in August of 2016. At the second trial, DNA evidence obtained from the victim was introduced into evidence that did not include Mr. Wright as the source. Also, other DNA evidence obtained from clothing allegedly belonging to Mr. Wright cast doubt on whether he wore the clothing during the murder. The DNA inside the clothing (pants and shoes) matched the victim's DNA. Mr. Wright filed this Section 1983 civil rights action alleging that his civil rights were violated by the City of Philadelphia and several homicide detectives. He claims his conviction in 1993 was based on a coerced confession, clothing that was planted by detectives in his home, and false inculpatory statements from witnesses. He claims his conviction, therefore, violated his 4th Amendment right to be free from malicious prosecution. Mr. Wright further claims the violation of his right was directly caused by the City's failure to train, supervise and discipline its homicide detectives. The City and the individual defendants contest Mr. Wright's claims. The case is in early stage of discovery. It is difficult at this point to evaluate the likelihood of success, however, the exposure should Mr. Wright prevail would be in excess of \$8 million.

**Henderson Inverse Condemnation**

- In early September 2016, a Petition for the Appointment of a Board of View pursuant to the Pennsylvania Eminent Domain Code, 26 Pa. C. Section 502(c), was filed in Delaware County against the City by numerous Henderson related entities and trusts (the "Sellers"). The Petition alleges that the City effected a de facto taking of the Henderson properties (the "Property"), which Property is proximate to Philadelphia International Airport and located in Tinicum Township, Delaware County. The City desires to acquire the Property for Airport purposes and had numerous discussions with representatives for the Sellers. In July 2016, the City made an offer for \$70 million. The City received no response. The City will likely file its own de jure taking in the first quarter of 2017.

For the Henderson Property, the City will need the cooperation of Tinicum Township or Delaware County to take it by eminent domain. While Tinicum has agreed to not withhold its consent for the City to take certain properties, the City has not yet requested that consent. While there are various estimates, the number of acres involved, the parcel is approximately, 135+/- acres (Henderson claims in excess of 144 acres). The property was

included in the City's FAA-approved Master Plan for the expansion of the Airport. It is one of several privately held properties identified in the Master Plan. The City has been successful in purchasing several of these.

The City is represented by outside counsel and the City has filed Preliminary Objections to the Petition. Henderson has responded and there will likely be a hearing on the Preliminary Objections. The parties are also embroiled in a variety of issues which will undoubtedly generate significant attorney's fees, (most significantly, massive discovery requests, which if not narrowed will require the City to produce hundreds of thousands of pages) two issues are at the core of what is in dispute: 1) when is the effective date of the taking (delay damages accrue from this date at a very high rate of interest); and 2) what is the value of the Property. The Hendersons have valued the Property at \$180 M and the City's most recent appraisal (2013) values the Property at between \$40 M and \$50 M. An additional appraisal is being undertaken by the City.

An ordinance was introduced in to City Council on February 9, 2017 seeking authorization to acquire the Property by amicable negotiations or condemnation.

#### **Sweetened Beverage Tax Challenge**

- On September 2016, the American Beverage Association and other co-plaintiffs filed a lawsuit challenging the Philadelphia Beverage Tax in the Philadelphia Court of Common Pleas. The City estimates that the tax, once fully implemented, will generate approximately \$92 million a year in tax over the next five years. On December 19, 2016, the Philadelphia Court of Common Pleas dismissed the lawsuit in its entirety. Plaintiffs appealed the decision to the Commonwealth Court. The City immediately petitioned the Pennsylvania Supreme Court to exercise King's Bench jurisdiction over the appeal, which was denied on February 13, 2017. (The Supreme Court had previously denied plaintiffs' request for King's Bench jurisdiction.) The City has a high degree of confidence that the tax is lawful and that it will ultimately prevail in litigation, but, if the Common Pleas Court decision were reversed on appeal, all or some of the tax revenue estimate would be at risk.

Briefing is currently ongoing and oral argument is tentatively set for April 3, 2017. The tax went into effect as scheduled on January 1, 2017 and will be collected as intended.

#### **Ciber Inc. – Contract Dispute Resolution**

- The City has a \$15.7 million contract with Ciber Inc. ("Ciber,") to implement and host Oracle EBS software, which will take over HR, pensions, payroll, timekeeping, and benefits functionality currently performed by legacy systems, all part of the OnePhilly project. Ciber has furnished a performance bond in the amount of \$12,257,400 in order to guarantee the work.

The City and Ciber have agreed upon a revised project schedule which extends the go-live date from June 2016 to September 2017. Under the terms of the contract, substantive revisions to the project schedule are made by change order signed by both parties. Ciber is demanding that the change order adopting the revised schedule add an additional \$8.9 million to the project price; the City disputes that any new or out of scope work is being added, and has asked Ciber to justify its demand for additional money.

Ciber claims that the City agreed in the contract to the use of Ciber methodologies and that the City demanded changes to the sequence or durations of tasks in the project schedule are not part of Ciber methodology. Thus, Ciber contends that the City must pay for such changes. The City disputes that Ciber methodologies require certain durations or sequences.

Ciber also claims that the City has added additional work to the project scope by requiring Ciber to include in the project schedule additional tasks and sub-tasks that were not included in the previous version of the project schedule. The City disputes that its demand for additional detail in the project schedule obligates Ciber to perform out of scope work, and claims that all new tasks and sub-tasks in the project schedule are items of work that Ciber is already obligated to perform in the statement of work.

The contract is at the dispute resolution stage and negotiations are on-going. No one has filed a lawsuit or threatened, verbally or in writing, to sue the other. However, litigation is a possibility and, with the amount in dispute being as much as \$8.9 million, the Law Department believes this matter reaches the disclosure threshold. If the matter goes to litigation, the City believes that it has a strong and credible position and intends to defend vigorously.

#### **Fraternal Order of Police – Labor Contract Grievance Re: Conditions of Police Facilities**

- The FOP filed a grievance alleging that the City violated their union labor contract's human dignity clause based on the condition of all police facilities and sought extensive remedies. Following a lengthy arbitration, an

interim award was issued on April 26, 2013. Pursuant to the terms of that award, the arbitrator found that the City had violated the contract but ordered only that the parties meet on a monthly basis to identify and prioritize issues, work out budgets, and work through the issues identified by the union. The parties have been doing so continuously since the award was issued.

Recently, in July of 2016, the FOP began seeking new hearings before the arbitrator regarding the conditions of the police facilities. The union has not specified its concerns, for this reason, the City's attorneys are unable in their professional judgment to evaluate the likely cost of an unfavorable outcome, but estimate that if renovations such as those previously sought were necessary, it could cost the City more than \$8 million. City attorneys believe the probability of such an award being issued to be highly unlikely and would contest any such award vigorously through available appellate options.

**Estate of Rodriguez v. City of Philadelphia, No. 14-4435.**

- This lawsuit arose after a pregnant woman carrying a 36-week old baby fell down her stairs due to a pulmonary embolism and was taken by two Fire Department paramedics to Temple Hospital. The woman, Joanne Rodriguez, coded upon arriving at the hospital, at which point the door locks of the ambulance malfunctioned and trapped her and the paramedics inside the ambulance for a few minutes. Ms. Rodriguez died, while her son survived after a C-section but sustained severe, lifelong injuries. Ms. Rodriguez's estate has sued the City, its two paramedics, and every company involved in manufacturing the ambulance and its doors. Plaintiff has brought a state-created danger claim against our clients, as well as a variety of state law claims.

The case is currently in discovery. The City intends to file a motion for summary judgment as to all the claims. The City's attorneys believe the likelihood of an unfavorable outcome to be remote, believing instead that prevailing on summary judgment is likely. However, potential damages in this case could exceed \$8 million.

**Sourovelis v. City of Philadelphia, No. 14-4687**

- This class action lawsuit alleges that the drug forfeiture program run by the City and the District Attorney's Office ("DAO") violates due process because the City and DAO accrue too much money from the program, thereby creating an inherent conflict of interest. The Plaintiffs have filed a motion for class certification.

The case is currently in discovery, and oral argument on the class certification motion has occurred. The Parties are waiting for a ruling on class certification from the Court. Additionally, motions for summary judgment are due on March 17, 2017, following the close of expert discovery. The City intends to oppose class certification and file a motion for summary judgment. If the Court grants class certification and then finds for plaintiffs on the merits, it is possible that the City would have to return approximately \$12 million to class members and pay millions in attorneys' fees.

**Doe v. City of Philadelphia, No. 151201740**

- This class action lawsuit alleges that the City has violated a state law which sets a statutory penalty of \$1,000 for each incident where a local government discloses the identity of someone who applies for a gun permit. The Plaintiffs allege that the City has violated this statute by sending out postcards addressed to gun permit applicants, having applicants write their names on sign-in sheets at the Police Department's Gun Permit Unit ("GPU") and calling out the names of applicants in the waiting room of the GPU.

The parties are currently in class discovery, which will be followed by briefing and argument on a class certification motion. The Pennsylvania Supreme Court recently granted a partial review of a similar case filed against Franklin County. However, the portion of that case being reviewed is not anticipated to affect the City's liability. Therefore, the Law Department intends to argue at the class certification stage that this case presents too many individualized issues to proceed as a class action. The damages in this matter could exceed \$8 million, as plaintiffs allege that their putative class has 31,000 members. The City's attorneys believe the likelihood of an unfavorable outcome to be remote because a class will not be able to be certified due to the various individualized issues of the plaintiffs.

**Augustin v. City of Philadelphia, et al, No. 14-4238 (E.D. Pa)**

- Plaintiffs, purporting to represent a class of non-owner-occupied residential and commercial property owners, filed an action in the United States District Court for the Eastern District of Pennsylvania alleging that the City (which for this purpose includes the Philadelphia Gas Works ("PGW")), imposes liens on the class' properties for unpaid charges for gas service, incurred by their tenants or others living in or utilizing the properties, without meaningful and timely notice to them or opportunity to be heard beforehand, in alleged violation of their



federal due process rights. Plaintiffs seek declaratory and permanent injunctive relief, an order requiring the City to release all existing liens in this category, and “such other relief deemed by the Court to be necessary or appropriate.” Following extensive merits discovery, the parties filed cross-motions for summary judgment on the constitutionality of PGW’s liening procedure as applied to such properties.

On February 11, 2016, the Court denied the City’s summary judgment motion, identifying certain purported issues of material fact. On March 18, 2016, the Court granted the plaintiffs’ motion. On May 5, 2016, following a hearing on May 3, 2016, the Court entered a preliminary injunction against the City and PGW restraining them, pending further order of the Court, from filing any new liens against such properties and from collecting upon existing liens. The Court permitted the City and PGW to continue to issue payoff statements to facilitate real estate transactions (PGW’s typical method of satisfying its liens) on such properties, and to accept the payoffs, but directed it to segregate such money.

On July 26, 2016, the Court held a hearing on class certification and a non-jury trial on remaining factual issues.

On January 5, 2017, the District Court entered into its final order in the case, after certifying the case as a class action. The order essentially makes final the relief granted with the preliminary injunction. It prevents PGW from imposing “Covered Liens” (essentially liens relating to residential or commercial rental properties where gas service was provided to the delinquent tenant) until further order of the Court approving a revised notice and hearing procedure; bars the collection of such liens; and declares them void. The City and PGW have appealed to the United States Court of Appeals for the Third Circuit, and have been negotiating a partial stay of the final order pending disposition of the appeal. The amount at issue substantially exceeds \$8 million, although PGW will be responsible assuming solvency.

#### **Narcotics Field Unit – District Attorney’s Letter Re: Not Prosecuting Cases**

- The highly publicized letter from the District Attorney’s Office calls into question approximately 350-500 arrests by a group of six narcotics officers. So far, approximately 250 cases have been filed in Federal Court in the Eastern District of Pennsylvania. The complaints allege that narcotics officers(s) falsified information obtained through confidential informants and planted evidence. Six narcotics officers have been arrested and are facing federal charges in relation to these complaints. If the allegations are substantiated, City Lawyers anticipate between 350 and 500 lawsuits to be filed. The number of lawsuits could easily surpass the number of cases brought as a result of the 39th District scandal. The 39th District scandal cost the City approximately \$5 million.

Currently, of the 250 cases which are now stayed in Federal Court, the parties have selected 10 cases to litigate (the “Bellwether cases”). Those 10 are in the middle of discovery. The City will aggressively defend the Bellwether cases.

If Federal Court juries award significant damages in any of the 10 bellwether cases, the City faces potential exposure to damages as high as \$8 million dollars, although that high of a figure is unlikely. The City assesses these cases are defensible.

#### **Lower Darby Creek Area Superfund Site**

- In 2001, the U.S. Environmental Protection Agency (EPA) added the Lower Darby Creek Area (Site) to the National Priority List, EPA’s list of the most serious uncontrolled or abandoned hazardous waste sites. The Site includes two former municipal landfills: the Folcroft Landfill and the Clearview Landfill. In 2002, EPA sent the City a letter alleging that the City is a Potentially Responsible Party (PRP) at the Clearview Landfill (Clearview) site. Designation as a PRP means the City may be jointly and severally liable with other PRPs for the site’s clean-up costs. EPA has concluded that the City owns the Recreational Property and streets adjacent to the Clearview Landfill and alleges that there is a reasonable basis to believe there may be or has been a release or threat of release of hazardous substances, pollutants or contaminants at or from the City’s property. Additionally, EPA alleges that the City “arranged” for the disposal of hazardous substances at the Clearview Landfill. The City received and responded to two separate requests from EPA for additional information. EPA completed the Remedial Investigation for the Clearview Landfill in May 2011 and a feasibility study of remedial options in October 2012. In August 2013, EPA issued a proposed plan identifying its preferred remedy and proposed cleanup plan. The final plan and Record of Decision (ROD) were issued September 30, 2014. EPA chose its preferred option of a capping remedy that is estimated to cost approximately \$24 million, and has preliminarily identified approximately \$11 million dollars in past costs. On January 16, 2015, EPA sent a letter to the City and 22 other PRPs indicating EPA will not use its Special Notice authority to force the PRPs to begin a cleanup. Instead, EPA has

decided that EPA will implement the cleanup/remedial action plan. EPA is also beginning a groundwater study that is likely to result in a recommendation for additional cleanup related to groundwater.

In November 2015 EPA released 30% Design Report for Clearview. A 60% Design Report is expected in fall 2016, and a final Design Report in March 2017. At that point, EPA most likely will decide whether it will precede to implement the Remedial Action itself or force the PRPs to take on the task. Because of the broad liability scheme under the federal Superfund law, Superfund litigation generally focuses not on avoiding a finding of liability, but rather on ensuring that the remediation is cost-effective and the allocation of costs among all parties identified as bearing some degree of liability is fair and reasonable. The total costs of the removal and remedial actions for which EPA may assert cost recovery claims are estimated to be in the range of approximately \$40 million to \$60 million. Insufficient information is available to the City at this time to determine the exact amount of those costs that will be allocated to the City, but based on existing information the City's allocated share may exceed 20% of the total cleanup costs or approximately (\$8 million - \$12 million).

**Reach Communications Specialists, Inc. (Reach) v. Jewell Williams, Sheriff et al.**

**E.D. Pa., No. 13-2388**

- Reach for itself and t/a RCS Searchers, Inc. ("Reach/RCS") commenced an action by writ of summons in Court of Common Pleas of Philadelphia County in January 2013 against, among others, Sheriff Williams in his official capacity, the City of Philadelphia, Alan Butkovitz, Controller in his official and individual capacity, and Barbara Deeley, former Acting Sheriff, in her individual and official capacity (collectively "City Defendants"). Reach thereafter filed a complaint. Reach pleaded federal law and state law claims for damages against City Defendants.

In the Complaint, Reach alleged that Acting Sheriff Deeley, in January 2011, immediately after her appointment as Acting Sheriff and following the retirement of former Sheriff Green effective end of December 2010, "unlawfully" terminated certain alleged contracts ("Alleged Contracts") made between former Sheriff Green and Reach/RCS. The Alleged Contracts concerned advertising and printing services, settlement services, title insurance distribution policies, computer systems and website technical support and services, relating to the official functions of the Office of the Sheriff in connection with judicial sales of real property. Reach further alleged that it had provided (and expected to continue to render), such services or distribution policies pursuant to those Alleged Contracts (a series of oral and written agreements and amendments with former Sheriff Green or his staff).

Reach asserted that it has been a minority-owned and controlled corporation, with mostly black employees, and has acquired an imputed racial identity as a "black corporation". Reach also asserted that it actively and publicly supported and assisted Sheriff Green's efforts to: help homeowners stave off foreclosure sales; and maintain the power and office of the Sheriff from dissolution.

Reach alluded to certain official actions taken, statements made, familial connections and employment relationships by former Sheriff Deeley (and her daughter Lisa Deeley) and Controller Butkovitz or by and between then-Chief Deputy Sheriff Vignola and Lexington officials, in connection with: the Controller's audit of Sheriff Office operations (and Auditor's Report critical of Sheriff's Office); the engagement of Lexington Technology Auditing, Inc. ("Lexington") to assist in that audit and the information Lexington purportedly obtained about Reach; and then-President Judge Dembe's involvement in the termination of Reach and FJD's hiring of Lexington. Reach contended that these relationships, actions and statements established improper motivation and conspiratorial conduct to terminate the Alleged Contracts unlawfully and take over the functions, powers and monies of Sheriff's Office. Additionally, Reach contended that the termination of Reach's Alleged Contracts fits into a pattern and practice of racial discrimination engaged in by Acting Sheriff Deeley and results from her retaliatory animus or conspiratorial activity.

Reach made claims for damages (compensatory and punitive), interest, attorney's fees and costs under 42 U.S.C. §§1983 and 1985(3) arising out of former Sheriff Deeley's termination of the Alleged Contracts and her (and current Sheriff Williams') refusal to continue the relationships. In summary, Reach alleged: deprivation of property without due process by former Sheriff Deeley and Sheriff Williams; retaliation by City and City Official Defendants for protected First Amendment conduct in violation of First Amendment; racial discrimination by Controller Butkovitz, former Sheriff Deeley and Sheriff Williams in violation of 42 U.S.C. § 1981; and conspiracies by all in violation of Section 1983 and 42 U.S.C. § 1985(3).

Reach also made claims for compensatory damages, prejudgment interest and costs against Sheriff Williams, in his official capacity, for breach of contract, or alternatively promissory estoppel or unjust enrichment, and against City for breach of contract or alternatively unjust enrichment. Reach asserted in substance that Sheriff Williams (or City) refused to be bound by the Alleged Contracts, alleged promises of Green or implied restitutionary obligations and refused to pay post-termination any alleged unpaid balances due and owing for services rendered.

Reach contended such actions resulted in breach of those Alleged Contracts (or alternatively) necessitated enforcement of Green's promises to pay to avoid injustice or justified creation of implied contracts (at law) to avoid unjust enrichment.

The City Defendants, with the consent of other co-Defendant Lexington Technology Auditing, Inc. ("Lexington"), removed the action to federal court, specifically the Eastern District of Pennsylvania.

During the Rule 16 conference on the case, based on the Court's determination that continued litigation might interfere with an ongoing criminal investigation, the Court issued an order placing the case in suspense (deferred status). The case remains in deferred status.

If and when the Court removes the case from suspense status and the litigation resumes, the City (and City Defendants in their official capacities) intend vigorously to pursue defenses and potentially counterclaims to defeat/minimize Reach's claims. At this very early stage of the action, and based on filed papers and matters of record, the City's lawyers reasonably believe that Reach will not likely succeed on their claims or for the amount of damages sought and that the City's defenses/counterclaims have merit.

## **(2) Guaranteed Debt**

During Fiscal Year 2014, the City implemented GASB Statement No. 70, *Accounting and Financial Reporting for Nonexchange Financial Guarantees*. The objective of this statement is to improve the recognition, measurement, and disclosure guidance for state and local governments that have extended or received financial guarantees that are nonexchange transactions. The implementation of GASB Statement No. 70 had no significant effect on the City's financial statements. The City has guaranteed certain debt payments of one component unit (PPA). Under a contract with PPA authorized by City Council Ordinance, the City agreed to annually pay such amounts as necessary to restore any deficiency in the debt service reserve fund for PPA's Parking System Revenue Bonds Series 1999A. Through fiscal year 2016, the City has provided approximately \$12.6 million in its role as guarantor of these bonds. The 1999A Indenture provides for the PPA to repay the City for any funds paid by the City as a result of its guarantee. In the event of a sale of the related parking lot, any funds received in excess of the bond principal and accrued interest will be used to repay the City. The 1999A bonds, which mature in fiscal year 2029, had an outstanding principal balance of \$12.36 million at March 31 2016.

## **(3) Single Audit**

The City receives significant financial assistance from numerous federal, state, and local governmental agencies in the form of grants and entitlements. The disbursement of funds received under these programs generally requires compliance with terms and conditions as specified in the grant agreements, and is subject to audit. Any disallowed claims resulting from such audits and relating to the City or its component units could become a liability of the General Fund or other applicable funds. In the opinion of City Officials the only significant contingent liabilities related to matters of compliance are the unresolved and questioned costs in the City's Schedule of Financial Assistance to be issued for the year ended June 30, 2016, which accounted for \$323.2 million for all open programs as of February 17, 2017. Of this amount, \$322.2 million represents unresolved cost due to the inability to obtain audit reports from sub-recipients for the year ended June 30, 2016 and prior. For Fiscal Years ending June 30, 2015 and prior, \$0.9 million represents questioned costs related to specific compliance requirements which have yet to be resolved.

## **(4) HUD Section 108 Loans**

As detailed in Note III. 6., collateral for repayment of the City's HUD Section 108 loans includes future Community Development Block Grant entitlements due to the City from HUD.

## **(5) Act 148 Children and Youth Program Activities Moved to Grants Revenue Fund**

In previous fiscal years the Act 148 Children and Youth Program reimbursed by the Commonwealth of Pennsylvania, was accounted for in the General Fund. Starting in fiscal year 2012, the reimbursable portion of this program was accounted for in the Grants Revenue Fund, and the non-reimbursable portion continues to be accounted for in the General Fund. At June 30, 2015 the Grants Revenue Fund had a \$226.5 million receivable for the Children and Youth Program. In FY 2016 the Grants Revenue Fund had expenditures totaling \$480.68 million and revenue totaling \$460.08 million. At June 30, 2016 the Grants Revenue Fund had a \$247.11 million receivable for the Children and Youth Program. Due to the nature of the program's billing policies, the city has 24 months after the current fiscal yearend date to submit a final reimbursement request. If receivables for program costs submitted for reimbursement are subsequently deemed ineligible, such non reimbursable costs will be charged to the General Fund.

**B. COMPONENT UNITS**

**(1) Claims and Litigation**

**Special Education and Civil Rights Claims** – There are four hundred thirty-six (436) various claims against the School District, by or on behalf of students, which aggregate to a total potential liability of \$3.4 million.

Of those, four hundred twenty-six (426) are administrative due process hearings and appeals to the state appeals panel pending against the School District. These appeals are based on alleged violations by the School District to provide a free, appropriate public education to students under federal and state civil rights, special education or the Rehabilitation Act and anti-discrimination laws. In the opinion of the General Counsel of the School District, one hundred and ninety-five (195) unfavorable outcomes are deemed probable and two hundred and six (206) are considered reasonably possible, in the aggregate of \$0.9 million and \$0.8 million respectively.

There are four (4) lawsuits pending against the School District asserting claims in violation of §1983 of the Civil Rights Act. In the opinion of the General Counsel of the School District, unfavorable outcomes are deemed probable for these lawsuits in the aggregate amounts of approximately \$0.5 million.

There are six (6) suits in federal court by parents of special education students for reimbursement for attorneys' fees and costs in administrative proceedings and appeals to court in which the parents were prevailing parties. In the opinion of the General Counsel of the School District, unfavorable outcomes are deemed probable in the aggregate amounts of approximately \$0.7 million.

**Other Matters** - The School District is a party to various claims, legal actions, arbitrations and complaints in the ordinary course of business, which aggregate to a total potential liability of \$28.7 million. In the opinion of the General Counsel of the School District, it is unlikely that final judgments or compromised settlements will approach the total potential liability, however. Nevertheless, the School District annually budgets an amount that management believes is adequate, based on past experience, to provide for these claims when they become fixed and determinable in amount. More particularly, compromised settlements or unfavorable outcomes are deemed probable or reasonably possible in the amounts of \$0.6 million and \$10.8 million, respectively, in connection with disputed contracts and labor and employment matters. Likewise, compromised settlements or unfavorable verdicts are deemed probable or reasonably possible in the aggregate amounts of \$4.4 million and \$2.6 million, respectively, arising from personal injury and property damage claims and lawsuits.

**Education Audits** - In the early 1990s, the School District received basic education subsidies from the Commonwealth of Pennsylvania based primarily on student enrollment. In July of 1995, the Department of Education notified the School District that an audit conducted by the Auditor General for fiscal years ending in 1991, 1992 and 1993 indicated over-reporting of student enrollment in fiscal year 1991, the year established by the Commonwealth as the base year calculation for all subsidies through fiscal year 1999. Consequently, a claim for reimbursement due was initially estimated at approximately \$40 million through fiscal year 1999, and subsequently reduced by half, to approximately \$20 million, as a result of additional reviews of School District documentation. In May 1999, the School District appealed the adverse determination to the Secretary of Education, as provided by law. The Secretary was to appoint a hearing officer to consider the matter further. During the pendency of the dispute over the adequacy of documentation to support 1991 student enrollment figures, an audit of reported enrollment in school years 1994-95 through 1996-97 was also undertaken. The Department of Education asserted a claim for an additional \$20 million for the alleged over-reporting of enrollment during those periods. The School District has denied this additional claim and has produced supporting documentation to the Secretary of Education. As part of an agreement with the School District, the Commonwealth postponed all potential collection actions in this category while both matters remain pending. Discussions with Commonwealth representatives regarding relief from this potential liability are ongoing. Because no final determination of forgiveness has been made, however, there remains a remote likelihood in the amount of \$40 million.

**Federal Audits** - The U.S. Department of Education Office of the Inspector General ("OIG") conducted an audit of the School District's controls over Federal expenditures for the period commencing July 1, 2005 through June 30, 2006. A preliminary draft audit report was issued by the OIG in May, 2009. In accordance with applicable audit standards, the School District responded to the draft audit findings in August, 2009, supporting the vast majority of the expenditures questioned. On January 15, 2010, the OIG issued an audit report, assessing the School District's management of federal grant funds during the 2006 fiscal year. The report identified \$138.8 million in findings resulting from the audit of controls over federal expenditures, of which \$121.1 million were considered inadequately supported and \$17.7 million were considered unallowable costs. The report included five findings, the largest of which related to undocumented salary and benefits charged to federal programs in the amount of \$123 million.

As of June 30, 2016 and continuing until the date of this letter, in the opinion of outside counsel, the School District has potential material liability related to the OIG audit issued in January 2010. The OIG issued an audit report to the School District assessing the School District's management of federal grant funds during the 2006 fiscal year.

The U.S. Department of Education ("DOE") issued two program determination letters (PDLs) related to the 2010 audit report seeking a recovery of funds. The PDLs were issued to the Pennsylvania Department of Education ("PDE") and appeals of both are pending. DOE issued two additional PDLs (four PDLs total) on the remaining findings that required corrective actions, but did not result in monetary exposure. All of the corrective actions have already been implemented part of the corrective action plan as agreed upon with the PDE and DOE.

The first PDL demanded a recovery of \$9.9 million and was appealed to the Office of Administrative Law Judge. Of that amount, DOE's counsel stipulated to approximately \$2.8 million as barred by the statute of limitations, leaving a balance of \$7.2 million. PDE raised two primary arguments against the recovery of the remaining liability: (1) the statute of limitations bars an additional \$5.3 million in costs; and (2) equitable offset extinguishes the remaining liability. The administrative law judge (ALJ) issued a decision on February 28, 2014 rejecting these arguments and sustaining the full amount of disputed liabilities. On March 31, 2014, PFE and the District appealed the initial decision to the Secretary. On March 31, 2014, PDE and the School District appealed the initial decision to the Secretary. On December 29, 2014, the Secretary affirmed the liability, although he did not adopt the standard used by the ALJ. The Secretary's final decision was appealed to the U.S. Court of Appeals for Third Circuit on February 17, 2015. A panel of the Third Circuit issued its decision and sustaining the \$7.2 million liability. PDE and the District filed a petition for certiorari with the Supreme Court of the United States on July 18, 2016, which was denied on October 3, 2016. With no further appeals pending, DOE may demand payment from PDE, which in turn may seek to recover the liability from the District. To date, no such demands have been made. The likelihood of liability is probable.

The second PDL demanded a recovery of \$2.5 million. That PDL was not timely appealed by PDE. However, the PDL invited the State to present evidence to DOE of the amount barred by the statute of limitations. After PDE and the School District presented documentation demonstrating the application of the statute of limitations to DOE on April 4, 2016, DOE's attorney advised that DOE will not seek recovery of this amount and that a second PDL will be issued to that effect.

#### **Administrative Appeals in Pennsylvania Department of Education**

The School District received several subsidy withholding requests filed with the Pennsylvania Department of Education ("PDE") by charter schools that have enrolled resident students from the School District. These withholding requests address whether the PDE's Form 363, used to calculate charter school tuition, contains an allowance for improper deductions in the calculation of the regular education expenditure. The issue is whether the form itself is flawed in that PDE has authorized federal funding to be deducted from the expenditure calculation in violation of the law. This is an issue in more than 200 subsidy withholding requests submitted to PDE seeking subsidy from many school districts in Pennsylvania.

Because there are more than 200 appeals pending, PDE selected four cases involving Pittsburgh School District and charter schools as example cases on the legal issues involved. PDE had assigned a Hearing Officer to hear these administrative appeals and to make a recommendation to the Secretary of Education. However, prior to the hearing, the dispute between Pittsburgh School District and the charter schools was settled.

It is expected that PDE will select a different representative case to decide the legal question involved. However, no hearing is currently scheduled. The School District of Philadelphia intends to file a Petition to Intervene in the chosen example case, so that the School District's interests can be adequately represented. It is not yet known when that Petition will be filed or if the School District will be permitted to intervene. The direct cases against the School District are stayed pending the outcome of the example case.

The School District intends to vigorously defend its position, both as an intervenor and as a party, if the direct cases against the School District ever move forward. It is the belief of the School District – and of PDE according to PDE's own form and guidance documents – that federal funding is not appropriately included in the calculation of charter school funding due to the nature of the funding itself and the fact that charter schools are equally eligible for the same federal funding as school districts. Although it is impossible to determine with any degree of certainty, based upon our evaluation of the legal claims, in the opinion of the School District's outside counsel, the likelihood of an unfavorable outcome is reasonably possible in the amount of approximately \$5.7 million for the pending withholding requests of which we are aware, assuming that the charter schools successfully argue

that they are entitled to a portion of the School District's federal funding. The exposure if the PDE-363 form is invalidated and all charter schools are permitted, going forward, to receive a portion of the School District's federal funding on an annual basis, is estimated to be upwards of \$100 million each year.

## 9 SUBSEQUENT EVENTS

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In preparing the accompanying financial statements, the City has reviewed events that occurred subsequent to June 30, 2016 through and including February 24, 2017. The following events are described below:

### A. PRIMARY GOVERNMENT

1. In October 2016, the City issued \$175 million of Tax and Revenue Anticipation Notes (TRAN), Series A of 2016-2017 to provide cash to supplement the receipts of the City in the General Fund for the purpose of paying the general expenses of the city prior to receipt of taxes and other revenues to be received in the current fiscal year and pay the costs of issuance of the Notes. The proceeds will be invested and repaid by June 30, 2017.
2. In October 2016, the City issued \$192.7 million of Water and Wastewater Revenue Refunding Bonds, Series 2016. The 2016 series bonds were issued with interest rates ranging from 3% to 5%. The 2016 Series Bonds were issued to provide funds to finance the advance refunding of portions of the City's outstanding (a) Water and Wastewater Revenue Refunding Bonds, Series 2007A, (b) Water and Wastewater Revenue Bonds, Series 2009A, and (c) Water and Wastewater Revenue Bonds Series 2010C, and the cost of issuance of the 2016 Series Bonds.
3. Through August 2016 draw-downs totaling \$2.5 million represent new loans from the Pennsylvania State In-frastructure Financing Authority ("PENNVEST") for water main replacement.
4. In February 2017, the City issued \$263 million of General Obligation Refunding Bonds - Series 2017. The 2017 series bonds were issued with interest rates ranging from 4% to 5%. The 2017 Series Bonds were issued to provide funds to refund: (a) the City's General Obligation Bonds, Series 2006 maturing August 1, 2028 and August 1, 2031; (b) a portion of the City's General Obligation Fixed Rate Refunding Bonds, Series 2007A maturing August 1, 2018 and August 1, 2019; (c) the City's General Obligation Refunding Bonds, Series 2008A maturing on December 15, 2019 through 2027, inclusive, and December 15, 2032; (d) a portion of the City's General Obligation Fixed Rate Refunding Bonds, Series 2009A maturing August 1, 2021 through 2031, inclusive; (e) the City's General Obligation Bonds, Series 2011 maturing on August 1, 2041, and to pay for the cost of issuing the General Obligation Refunding Bonds - Series 2017.

### B. COMPONENT UNITS

#### 1. SDP Subsequent Events

##### a. Commonwealth of Pennsylvania Legislative Actions

Cigarette Tax Bill – Legislation enacted by the Commonwealth State Senate in July 2016 provided for the establishment of a \$58 million annual floor on the School District of Philadelphia Cigarette Tax of \$2 per pack and the elimination of the 2019 sunset provision for this tax. These changes are projected to provide an additional \$125 million in revenues over the period Fiscal Year 2017 to Fiscal Year 2021.

Fiscal Code Amendments – The enactment of Act 85 in July 2016 by the Pennsylvania General Assembly effected new state intercept provisions to be used during a Commonwealth Budget impasse designed to mitigate exposure to the Commonwealth's budget process. The new intercept provisions appropriate General Fund monies to be used to make intercept payments if no education appropriations have been enacted. This was in response to the Fiscal Year 2016 State budget impasse which left Pennsylvania School District's and other entities receiving State funding without General Fund budget appropriations and impacted bond ratings and debt service borrowing rates for short-term borrowing. The passing of Act 85 had a positive impact on the School District of Philadelphia's bond ratings for Fitch and Moody's.

Bi-Partisan Funding Formula – Act 35 established in July 2016 a Basic Education Funding formula for school districts in Pennsylvania based upon factors including wealth of the district, the district's current tax effort and the ability of the district to raise revenue. As a result of the application of Act 35 formula in the education appropriations for Fiscal Year 2017, the District receives 23% of new funding as compared to 18% of existing basic education subsidies.

Ride Share Bill – On October 2016 the Commonwealth State Senate passed legislation authorizing ride-sharing in Pennsylvania. The legislation provides a long-term solution for ride sharing companies such as Lyft and Uber to operate everywhere in Pennsylvania, including in Philadelphia, PA. Two-thirds of the revenue derived from ride sharing in the City of Philadelphia will go to the School District of Philadelphia. The 66.67% of the assessment of 1.4% of the gross receipts from all fares that originate in the City will expire December 31, 2019. If an assessment is imposed after the expiration date, it may not be less than the 66.67%. The fully-approved program is anticipated to generate annual revenues of approximately \$2 million.

b. Rating Agency Actions Due

In October 2016 both Fitch and Moody's upgraded the School District of Philadelphia's credit rating to "stable". Both Fitch and Moody's released a Credit Opinion that revised the credit outlook for the District from "negative" to "stable". Fitch affirmed the current rating for the School District's Bonds at BB-underlying and A+ enhanced. The upgrade was based upon improved fiscal management and revenue support from the City and Commonwealth. Moody's affirmed the current rating for the School District's Bonds at Ba3 underlying and A2 enhanced. This upgrade was based upon the District's improved financial position and long term fiscal plan. These changes represent the first positive movement in the School District's credit outlook since 2010.

c. General Obligation Bonds, General Obligation Refunding Bonds, and State Public School Building Authority Lease Revenue Refunding Bonds

General Obligation Bonds: On October 20, 2016, the School Reform Commission authorized the issuance of General Obligation Bonds (GOB) Series D of 2016 and Series E of 2016. In November 2016, GOB Series 2016D was issued in the aggregate amount of \$92.3 million while GOB Series E was issued as Federally Taxable Qualified School Construction Bonds in the aggregate amount of \$147.2 million. Both series of bonds will fund the Capital Improvement Program. Bond provisions of GOB Series 2016E require the District to make periodic mandatory sinking fund installments through the maturity date of September 1, 2042.

General Obligation Refunding Bonds: On October 20, 2016, the School Reform Commission authorized the issuance of General Obligation Refunding Bonds (GOB) Series F of 2016 in the aggregate amount of \$582.2 million for the purpose of refinancing General Obligation Refunding Bonds Series 2016A, 2016B and 2016C to achieve debt service savings, eliminate the related covenant, and restructure its variable rate debt by refunding all of the 2015 refunding bonds issued June 1, 2016.

State Public Building Authority Lease Rental Revenue Refunding Bonds: On October 20, 2016, the School Reform Commission authorized the issuance of General Obligation Refunding Bonds (GOB) Series A of 2016 in the aggregate amount of \$570.0 million for the purpose of refinancing a portion GOB Series 2006A in the aggregate amount of \$174.3 million and refinancing a portion General Obligation Refunding Bonds Series 2006B in the aggregate amount of \$462.2 million.

d. Tax Anticipation Revenue Notes (TRAN)

In July 2016 as part of the annual process to obtain short term financing (in anticipation of the receipt of taxes and revenues) through the issuance of tax and revenue anticipation notes (TRANs), the School Reform Commission, through a resolution, authorized the issuance and sale of TRAN Note Series of 2016-2017 which was issued as fixed and variable rate notes in the aggregate of \$375 million which matures on June 30, 2017. The District maintains authority and ability, through the same School Reform Commission resolution, to issue additional notes and has access to \$200 million additional capacity which totals \$575 million if cash flow needs require it to do so.

On July 1, 2016, the District issued Series 2016-2017 TRAN under four separate subseries and sold them to two separate private banks. The District issued and sold (1) Series A-1 of 2016-2017 as a fixed rate mode for \$125 million; Series A-2 of 2016-2017 as a variable rate mode for \$125 million; Series B-1 of 2016-2017 as a fixed rate mode for \$62.5 million; and Series B-2 of 2016-2017 as a variable rate mode for \$62.5 million. All series were issued for the purpose of financing the current operating expenses to be received during Fiscal Year 2017.







## **Required Supplementary Information**

**(Other than Management's Discussion and Analysis)**

**City of Philadelphia**  
**Required Supplementary Information**  
**Budgetary Comparison Schedule**  
**General Fund**  
**For the Fiscal Year Ended June 30, 2016**

**Exhibit XIV**

*Amounts in thousands of USD*

	<u>Budgeted Amounts</u>			Final Budget to Actual Positive (Negative)
	<u>Original</u>	<u>Final</u>	<u>Actual*</u>	
<b><u>Revenues</u></b>				
Tax Revenue	2,912,279	2,951,425	2,966,648	15,223
Locally Generated Non-Tax Revenue	275,807	292,639	290,990	(1,649)
Revenue from Other Governments	651,815	679,722	689,076	9,354
Revenue from Other Funds	65,240	62,410	42,253	(20,157)
Total Revenues	3,905,141	3,986,196	3,988,967	2,771
<b><u>Expenditures and Encumbrances</u></b>				
Personal Services	1,534,426	1,578,034	1,562,628	15,406
Pension Contributions	611,701	622,113	622,113	-
Other Employee Benefits	560,481	547,481	559,152	(11,671)
Sub-Total Employee Compensation	2,706,608	2,747,628	2,743,893	3,735
Purchase of Services	832,668	858,824	822,159	36,665
Materials and Supplies	70,040	69,133	66,499	2,634
Equipment	27,042	31,044	25,587	5,457
Contributions, Indemnities and Taxes	187,631	193,126	192,729	397
Debt Service	141,398	141,398	132,089	9,309
Payments to Other Funds	32,715	32,839	32,839	-
Total Expenditures and Encumbrances	3,998,102	4,073,992	4,015,795	58,197
Operating Surplus (Deficit) for the Year	(92,961)	(87,796)	(26,828)	60,968
Fund Balance Available for Appropriation, July 1, 2015	139,401	151,531	151,531	-
<b><u>Operations in Respect to Prior Fiscal Years</u></b>				
Commitments Cancelled - Net	24,500	24,500	23,612	(888)
Other Adjustments	(1,615)	(5,500)	-	5,500
Adjusted Fund Balance, July 1, 2015	162,286	170,531	175,143	4,612
Fund Balance Available for Appropriation, June 30, 2016	69,325	82,735	148,315	65,580

\* Refer to the notes to required supplementary information.

**City of Philadelphia**  
**Required Supplementary Information**  
**Budgetary Comparison Schedule**  
**HealthChoices Behavioral Health Fund**  
**For the Fiscal Year Ended June 30, 2016**

**Exhibit XV**

*Amounts in thousands of USD*

	<u>Budgeted Amounts</u>		<u>Actual*</u>	<u>Final Budget to Actual Positive (Negative)</u>
	<u>Original</u>	<u>Final</u>		
<b><u>Revenues</u></b>				
Locally Generated Non-Tax Revenue	1,500	1,500	2,502	1,002
Revenue from Other Governments	<u>960,052</u>	<u>960,052</u>	<u>891,909</u>	<u>(68,143)</u>
Total Revenues	961,552	961,552	894,411	(67,141)
<b><u>Other Sources</u></b>				
Increase in Unreimbursed Commitments	-	-	16,669	16,669
Decrease in Financed Reserves	<u>-</u>	<u>-</u>	<u>100,000</u>	<u>100,000</u>
Total Revenues and Other Sources	<u>961,552</u>	<u>961,552</u>	<u>1,011,080</u>	<u>49,528</u>
<b><u>Expenditures and Encumbrances</u></b>				
Purchase of Services	960,002	959,992	889,795	70,197
Equipment	50	50	-	50
Payments to Other Funds	<u>1,500</u>	<u>1,510</u>	<u>743</u>	<u>767</u>
Total Expenditures and Encumbrances	<u>961,552</u>	<u>961,552</u>	<u>890,538</u>	<u>71,014</u>
Operating Surplus (Deficit) for the Year	<u>-</u>	<u>-</u>	<u>120,542</u>	<u>120,542</u>
Fund Balance Available for Appropriation, July 1, 2015	-	(3,354)	(3,354)	-
<b><u>Operations in Respect to Prior Fiscal Years</u></b>				
Commitments Cancelled - Net	-	-	1,742	1,742
Prior Period Adjustments	-	-	11,297	11,297
Other Adjustments	<u>-</u>	<u>3,354</u>	<u>-</u>	<u>(3,354)</u>
Adjusted Fund Balance, July 1, 2015	<u>-</u>	<u>-</u>	<u>9,685</u>	<u>9,685</u>
Fund Balance Available for Appropriation, June 30, 2016	<u>-</u>	<u>-</u>	<u>130,227</u>	<u>130,227</u>

\* Refer to the notes to required supplementary information.

City of Philadelphia  
Required Supplementary Information  
Budgetary Comparison Schedule  
Grants Revenue Fund  
For the Fiscal Year Ended June 30, 2016

Exhibit XVI

Amounts in thousands of USD

	Budgeted Amounts			Final Budget to Actual Positive (Negative)
	Original	Final	Actual*	(Negative)
<b>Revenues</b>				
Locally Generated Non-Tax Revenue	94,663	87,333	47,834	(39,499)
Revenue from Other Governments	1,463,971	1,221,033	835,133	(385,900)
Total Revenues	1,558,634	1,308,366	882,967	(425,399)
<b>Other Sources</b>				
Decrease in Unreimbursed Commitments	-	-	(22,895)	(22,895)
Decrease in Financed Reserves	-	-	23,898	23,898
Total Revenues and Other Sources	1,558,634	1,308,366	883,970	(424,396)
<b>Expenditures and Encumbrances</b>				
Personal Services	178,942	199,896	138,864	61,032
Pension Contributions	15,076	38,883	34,173	4,710
Other Employee Benefits	56,433	33,366	31,713	1,653
Sub-Total Employee Compensation	250,451	272,145	204,750	67,395
Purchase of Services	1,023,005	1,010,429	763,894	246,535
Materials and Supplies	35,621	30,880	21,392	9,488
Equipment	-	22,406	10,650	11,756
Contributions, Indemnities and Taxes	110	10	-	10
Payments to Other Funds	45,646	47,396	47,254	142
Advances, Subsidies, Miscellaneous	203,801	97,478	-	97,478
Total Expenditures and Encumbrances	1,558,634	1,480,744	1,047,940	432,804
Operating Surplus (Deficit) for the Year	-	(172,378)	(163,970)	8,408
Fund Balance Available for Appropriation, July 1, 2015	-	(212,994)	(212,994)	-
<b>Operations in Respect to Prior Fiscal Years</b>				
Commitments Cancelled - Net	-	-	40,963	40,963
Revenue Adjustments - Net	-	-	14,114	14,114
Prior Period Adjustments	-	212,994	-	(212,994)
Adjusted Fund Balance, July 1, 2015	-	-	(157,917)	(157,917)
Fund Balance Available for Appropriation, June 30, 2016	-	(172,378)	(321,887)	(149,509)

\* Refer to the notes to required supplementary information.

**City of Philadelphia - OPEB - Schedule of Funding Progress** *(Amounts in millions of USD)*

<b>Actuarial Valuation Date</b>	<b>Actuarial Value of Assets (a)</b>	<b>Actuarial Accrued Liability (AAL) (b)</b>	<b>Unfunded AAL (UAAL) (b - a)</b>	<b>Funded Ratio (a / b)</b>	<b>Covered Payroll (c)</b>	<b>UAAL as a Percent of Covered Payroll (b - a) / c</b>
07/01/2008	-	1,156.0	1,156.0	0.00%	1,456.5	79.37%
07/01/2009	-	1,119.6	1,119.6	0.00%	1,461.7	76.60%
07/01/2010	-	1,169.5	1,169.5	0.00%	1,419.5	82.39%
07/01/2011	-	1,212.5	1,212.5	0.00%	1,469.2	82.53%
07/01/2012	-	1,511.9	1,511.9	0.00%	1,371.6	110.23%
07/01/2013	-	1,703.6	1,703.6	0.00%	1,416.9	120.23%
07/01/2014	-	1,732.1	1,732.1	0.00%	1,495.1	115.85%
07/01/2015	-	1,772.6	1,772.6	0.00%	1,544.5	114.80%

**City of Philadelphia - Municipal Pension Plan - Schedule of Changes in Net Pension Liability** *(Amounts of USD)*

	<b>FYE 2016</b>	<b>FYE 2015</b>	<b>FYE 2014</b>
<b><u>Total Pension Liability</u></b>			
Service Cost (MOY)	148,370,075	143,556,347	136,986,515
Interest (includes interest on service cost)	802,450,569	791,298,503	774,518,750
Changes of benefit terms	-	-	-
Differences between expected and actual experience	151,918,733	34,909,464	-
Changes of assumptions	85,147,737	48,146,352	213,156,725
Benefit payments, including refunds of member contributions	(889,343,124)	(881,464,964)	(808,597,357)
<b>Net change in total pension liability</b>	<b>298,543,990</b>	<b>136,445,702</b>	<b>316,064,633</b>
<b>Total Pension liability - beginning</b>	<b>10,578,665,968</b>	<b>10,442,220,266</b>	<b>10,126,155,633</b>
<b>Total Pension liability - ending</b>	<b>10,877,209,958</b>	<b>10,578,665,968</b>	<b>10,442,220,266</b>
<b><u>Plan fiduciary net position</u></b>			
Contributions - employer	660,246,511	577,195,412	553,178,927
Contributions - member	67,055,003	58,657,817	53,722,275
Net investment income	(145,681,480)	13,838,367	681,469,584
Benefit payments, including refunds of member contributions	(889,343,124)	(881,666,036)	(808,597,357)
Administrative expense	(8,553,837)	(10,478,541)	(8,291,820)
<b>Net change in plan fiduciary net position</b>	<b>(316,276,927)</b>	<b>(242,452,981)</b>	<b>471,481,609</b>
<b>Plan fiduciary net position - beginning</b>	<b>4,674,252,416</b>	<b>4,916,705,397</b>	<b>4,445,223,788</b>
<b>Plan fiduciary net position - ending</b>	<b>4,357,975,073</b>	<b>4,674,252,416</b>	<b>4,916,705,397</b>
<b>Net pension liability - ending</b>	<b>6,519,234,885</b>	<b>5,904,413,552</b>	<b>5,525,514,869</b>
<b>Plan fiduciary net position as a percentage of the total pension liability</b>	<b>40.07%</b>	<b>44.19%</b>	<b>47.08%</b>
<b>Covered employee payroll</b>	<b>1,676,411,925</b>	<b>1,597,848,869</b>	<b>1,556,660,223</b>
<b>Net pension liability as a percentage of covered employee payroll</b>	<b>388.88%</b>	<b>369.52%</b>	<b>354.96%</b>

**City of Philadelphia Schedule of Collective Contributions (Based on Minimum Municipal Obligations)**

Last 10 Fiscal Years  
Amounts in Thousands

	FYE 2016	FYE 2015	FYE 2014	FYE 2013	FYE 2012	FYE 2011	FYE 2010	FYE 2009	FYE 2008	FYE 2007
Actuarially determined Contribution	594,975	556,030	523,368	727,604	534,039	463,375	297,446	438,522	412,449	400,256
Contributions in Relation to the Actuarially Determined Contribution	660,246	577,195	553,179	781,823	555,690	470,155	312,556	455,389	426,934	432,267
Contribution Deficiency/(Excess)	(65,271)	(21,165)	(29,811)	(54,219)	(21,651)	(6,780)	(15,110)	(16,867)	(14,485)	(32,011)
Covered-Employee Payroll	1,676,412	1,597,849	1,495,421	1,429,723	1,372,174	1,371,274	1,421,151	1,463,260	1,456,520	1,351,826
Contributions as a Percentage of Covered-Employee Payroll	39.38%	36.12%	36.99%	54.68%	40.50%	34.29%	21.99%	31.12%	29.31%	31.98%

**City of Philadelphia Schedule of Collective Contributions (Based on Funding Policy)**

Last 10 Fiscal Years  
Amounts in Thousands

	FYE 2016	FYE 2015	FYE 2014	FYE 2013	FYE 2012	FYE 2011	FYE 2010	FYE 2009	FYE 2008	FYE 2007
Actuarially determined Contribution	846,283	798,043	823,885	738,010	722,491	715,544	581,123	539,464	536,874	527,925
Contributions in Relation to the Actuarially Determined Contribution	660,247	577,195	553,179	781,823	555,690	470,155	312,556	455,389	426,934	432,267
Contribution Deficiency/(Excess)	186,036	220,847	270,706	(43,813)	166,801	245,389	268,567	84,075	109,940	95,658
Covered-Employee Payroll	1,676,412	1,597,849	1,495,421	1,429,723	1,372,174	1,371,274	1,421,151	1,463,260	1,456,520	1,351,826
Contributions as a Percentage of Covered-Employee Payroll	39.38%	36.12%	36.99%	54.68%	40.50%	34.29%	21.99%	31.12%	29.31%	31.98%

**Notes to Schedule**

Valuation Date 7/1/2014  
Timing Actuarially determined contribution rates are calculated based on the actuarial valuation two years prior to the beginning of the plan year

**Key Methods and Assumptions Used to Determine Contribution Rates:**

Actuarial cost method Entry Age  
Asset valuation method Ten-year smoothed market  
Amortization method Gain/Losses are amortized over closed 20-year periods, assumption changes over 15years, benefit changes for actives over 10 years, benefit changes for inactive members over 1 year, and plan changes mandated by state over 20 years.  
Under the City's Funding policy, the initial July 1, 1985 unfunded actuarial liability (UAL) is amortized over 34 years ending June 30, 2019, with payments increasing 3.3% per year, the assumed payroll growth.  
Under the MMO Funding Policy, the July 1, 2009 unfunded actuarial liability (UAL) was "fresh started", to be amortized over 30 years, ending June 30, 2039. This is level dollar amortization of the UAL.  
Discount rate 7.80%  
Amortization growth rate 3.30%  
Salary increases Age based salary scale  
Mortality Sex distinct RP-2000 Combined Mortality with adjustments and improvements using Scale AA

A complete description of the methods and assumptions used to determine contribution rates for the year ending June 30, 2016 can be found in the July 1, 2014 actuarial valuation report.

City of Philadelphia  
Required Supplementary Information  
Other Post Employment Benefits (OPEB) and Pension Plans

Exhibit XVII

**Philadelphia Gas Works - Schedule of Changes in Net Pension Liability** (Amounts in thousands USD)

	FYE 2016	FYE 2015	FYE 2014
Total Pension Liability			
Service Cost	5,400	4,890	8,924
Interest Cost	55,903	52,377	47,098
Changes in Benefit Terms	0	-	-
Differences between expected and actual experience	-8,841	17,960	59,326
Changes in assumptions	26,748	44,877	-
Benefit Payments	(50,447)	(46,917)	(42,913)
<b>Net Change in Total Pension Liability</b>	<b>28,763</b>	<b>73,187</b>	<b>72,435</b>
<b>Total Pension Liability (Beginning)</b>	<b>750,588</b>	<b>677,401</b>	<b>604,966</b>
<b>Total Pension Liability (Ending)</b>	<b>779,351</b>	<b>750,588</b>	<b>677,401</b>
Plan Fiduciary Net Position			
Contributions-Employer	21,123	21,106	24,934
Contributions-Employee	602	393	239
Net Investment Income	2,872	24,472	75,303
Benefit Payments	(50,446)	(46,917)	(42,913)
Administrative Expense	(1,611)	(1,480)	(732)
Other	-	-	-
<b>Net Change in Fiduciary Net Position</b>	<b>(27,460)</b>	<b>(2,426)</b>	<b>56,831</b>
<b>Plan Fiduciary Net Position (Beginning)</b>	<b>510,719</b>	<b>513,145</b>	<b>456,314</b>
<b>Plan Fiduciary Net Position (Ending)</b>	<b>483,259</b>	<b>510,719</b>	<b>513,145</b>
<b>Net Pension Liability (Ending)</b>	<b>296,092</b>	<b>239,869</b>	<b>164,256</b>
Total Pension Liability	779,351	750,588	677,401
Plan Fiduciary Net Position	483,259	510,719	513,145
<b>Net Pension Liability (Ending)</b>	<b>296,092</b>	<b>239,869</b>	<b>164,256</b>
Net Position as a percentage of Pension Liability	62.01%	68.04%	75.75%
Covered Employee Payroll	90,860	95,187	103,530
Net Pension Liability as a percentage of Payroll	325.88%	252.00%	158.66%

Valuation Date: actuarial liabilities and assets are calculated as of the Fiscal Year end date.

**Philadelphia Gas Works - Schedule of Actuarially Determined Contribution** (Amounts in thousands USD)

	FYE 2016	FYE 2015	FYE 2014
Actuarially Determined Contribution	26,476	21,526	24,385
Contributions Made	21,123	21,106	24,385
Contribution Deficiency/(Excess)	5,353	420	-
Covered Employee Payroll	90,860	95,187	103,530
Contributions as a percent of covered employee payroll	29.14%	22.61%	23.55%

**Notes to Required Supplementary Information:**

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

Valuation Date	June 30, 2016
Actuarial Cost Method	Projected Unit Credit Method
Amortization Method	Contributions based on greater of 20 year level dollar open amortization method and 30 year level dollar closed amortization method.
Asset Valuation Method	Actual Fair Market Value
Salary Increases	4.5% for current and subsequent years
General Inflation	2.00%
Investment Rate of Return	7.30% in 2016, & 6.5% in 2015, 7.95% in 2014
Cost of Living	N/A
Mortality rates	RP-2014 static mortality generationally projected with Scale MP-2014

## I. BASIS OF BUDGETING

The budgetary comparison schedules presented differ from the GAAP basis statements in that both expenditures and encumbrances are applied against the current budget, adjustments affecting activity budgeted in prior years are accounted for through fund balance or as reduction of expenditures and certain interfund transfers and reimbursements are budgeted as revenues and expenditures. In accordance with the Philadelphia Home Rule Charter, the City has formally established budgetary accounting control for its operating and capital improvement funds.

The major funds presented as Required Supplementary Information are subject to annual operating budgets adopted by City Council. These budgets appropriate funds by major class of expenditure within each department. Major classes are defined as: personal services; purchase of services; materials and supplies & equipment; contributions, indemnities & taxes; debt service; payments to other funds; and advances & other miscellaneous payments. The appropriation amounts for each fund are supported by revenue estimates and take into account the elimination of accumulated deficits and the re-appropriation of accumulated surpluses to the extent necessary. All transfers between major classes must have council approval.

Appropriations that are not expended or encumbered at year end are lapsed. Comparisons of budget to actual activity at the legal level of compliance are reported in the City's "Supplemental Report of Revenues & Obligations", a separately published report.

During the year, classification adjustments and supplementary appropriations were necessary for City funds. Therefore, budgeted appropriation amounts presented are as originally passed and as amended by the City Council. As part of the amendment process, budget estimates of City related revenues are adjusted and submitted to City Council for review. Changes in revenue estimates do not need City Council approval, but are submitted in support of testimony with regard to the appropriation adjustments. Revenue estimates are presented as originally passed and as amended.

## II. BASIS OF BUDGETING TO GAAP BASIS RECONCILIATION

	General Fund	HealthChoices Behavioral Health Fund	Grants Revenue Fund
<b><u>Revenues</u></b>			
Budgetary Comparison Schedule	3,988,967	894,411	882,967
Transfers	(409,106)	-	-
Program Income	-	-	63,407
Adjustments applicable to Prior Years Activity	-	-	-
Change in Amount Held by Fiscal Agent	(2)	-	-
Change in BPT Adjustment	9,048	-	-
Return of Loan	-	-	-
Other	-	-	14,114
Statement of Revenues, Expenditures & Changes in Fund Balance	<u>3,588,907</u>	<u>894,411</u>	<u>960,488</u>
<b><u>Expenditures and Encumbrances</u></b>			
Budgetary Comparison Schedule	4,015,795	890,538	1,047,940
Transfers	(170,698)	-	(31,881)
Bond Issuance Costs	992	-	-
Expenditures applicable to Prior Years Budgets	59,052	43,729	26,022
Program Income	-	-	63,407
Payments for Current Bond Refundings	6,693	-	-
Payment to School Board from Bond Proceeds	-	-	-
Change in Amount Held by Fiscal Agent	19,136	-	-
Current Year Encumbrances	<u>(72,946)</u>	<u>(60,331)</u>	<u>(43,481)</u>
Statement of Revenues, Expenditures & Changes in Fund Balance	<u>3,858,024</u>	<u>873,936</u>	<u>1,062,007</u>



**Other  
Supplementary  
Information**

## **NON-MAJOR GOVERNMENTAL FUNDS**

### **SPECIAL REVENUE FUNDS**

Special Revenue Funds are used to account for and report the proceeds of specific revenue sources that are restricted or committed to expenditure for specified purposes other than debt service or capital projects.

**COUNTY LIQUID FUELS TAX** - Established to account for funds made available by Public Law No. 149.

**SPECIAL GASOLINE TAX** - Established to account for funds made available by Public Law No. 588.

**HOTEL ROOM RENTAL TAX** - Established to account for the tax levied to promote tourism.

**COMMUNITY DEVELOPMENT** - Established to account for revenues received from the Department of Housing and Urban Development, restricted to accomplishing the objectives of the CDBG Program, within specific target areas.

**CAR RENTAL TAX** - Established to account for the tax levied to retire new municipal stadium debt.

**HOUSING TRUST** - Established to account for the funds to be used under Chapter 1600 of Title 21 of the Philadelphia Code to assist low income homeowners.

**ACUTE CARE HOSPITAL ASSESSMENT** - Established in FY 2009 to account for the assessment of certain net operating revenues of certain acute care hospitals.

**RIVERVIEW RESIDENTS** - Established to maintain a commissary and provide other benefits for the residents.

**PHILADELPHIA PRISONS** - Established to operate a workshop and to provide benefits for the prison inmates.

**ARBITRATION APPEALS** - Established to account for certain court fees and provide funds for the arbitration board.

**DEPARTMENTAL** - Established to account for various activities of the Free Library and Parks and Recreation.

**MUNICIPAL AUTHORITY ADMINISTRATIVE** - Established to account for all financial transactions of the Municipal Authority not accounted for in other funds.

**PENNSYLVANIA INTERGOVERNMENTAL COOPERATION AUTHORITY ADMINISTRATIVE** - Established to account for PICA revenues from taxes and deficit financing transactions.

## **NON-MAJOR GOVERNMENTAL FUNDS (Cont'd)**

### **DEBT SERVICE FUNDS**

Debt Service Funds are used to account for and report financial resources that are restricted, committed, or assigned to expenditure for principal and interest.

**CITY** - Established to account for the debt service activities of the City not reflected in proprietary funds operations.

**MUNICIPAL AUTHORITY** - Established to account for the debt service activities related to the equipment and facilities financed through the Philadelphia Municipal Authority.

**PENNSYLVANIA INTERGOVERNMENTAL COOPERATION AUTHORITY DEBT SERVICE** - Established to account for the debt service activities related to the deficit financing provided by PICA.

### **CAPITAL IMPROVEMENT FUNDS**

Capital Improvement Funds are used to account for and report financial resources that are restricted, committed, or assigned to expenditure for capital outlays, including the acquisition or construction of capital facilities and other capital assets .

**CITY** - Established to account for capital additions and improvements to the City's facilities and infrastructure and financed through general obligation bond issues and grants from federal, state and local agencies.

**MUNICIPAL AUTHORITY** - Established to account for the acquisition of vehicles and the construction of major facilities for the city.

### **PERMANENT FUNDS**

Permanent Funds are used to account for and report resources that are restricted to the extent that only earnings, and not principal, may be used for purposes that support the government's programs.

**LIBRARIES & PARKS** - Established to account for trust of the Free Library and Parks and Recreation.

City of Philadelphia  
Combining Balance Sheet  
Non-Major Governmental Funds  
June 30, 2016

Schedule I

Amounts in thousands of USD

		Special Revenue													
		County Liquid Fuels Tax	Special Gasoline Tax	Hotel Room Rental Tax	Community Development	Car Rental Tax	Housing Trust	Acute Care Hospital Assessment	Riverview Residents	Philadelphia Prisons	Arbitration Appeals	Departmental	Municipal Authority Administrative	PICA Administrative	Total
Assets	Cash on Deposit and on Hand	-	-	-	-	-	-	-	-	-	-	8,745	291	15,720	24,756
	Equity in Treasurer's Account	1,927	38,017	8,315	-	5,801	21,850	12,263	30	3,415	-	4,155	-	-	95,773
	Investments	-	-	-	-	-	-	-	-	-	-	848	-	9,933	10,781
	Due from Other Funds	-	-	-	-	-	-	-	-	-	-	39	-	-	39
	Due from Component Units	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Amounts Held by Fiscal Agent	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Notes Receivable	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Taxes Receivable	-	-	7,541	-	598	-	15	-	-	-	-	-	5,042	13,196
	Accounts Receivable	-	-	-	2,404	-	-	-	-	-	-	-	4,048	-	6,452
	Due from Other Governmental Units	-	-	-	8,481	-	-	-	-	-	-	-	-	-	8,481
	Allowance for Doubtful Accounts	-	-	(860)	-	(23)	-	(14)	-	-	-	-	-	-	(897)
	Interest and Dividends Receivable	-	-	-	-	6	-	-	-	-	-	-	-	2	8
	Inventories	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other Assets	-	-	-	-	-	-	-	-	-	-	355	-	21	376
	Total Assets		1,927	38,017	14,996	10,885	6,382	21,850	12,264	30	3,415	-	14,142	4,339	30,718
Liabilities	Notes Payable	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vouchers Payable	26	1,080	-	1,051	-	817	909	-	117	-	266	-	-	4,266
	Accounts Payable	-	1,723	2,508	1,999	-	266	100	-	-	-	593	4,187	96	11,472
	Salaries and Wages Payable	-	-	-	128	-	-	58	-	-	-	-	-	-	186
	Payroll Taxes Payable	-	-	-	-	-	-	-	-	-	-	-	-	42	42
	Accrued Expenses	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Due to Other Funds	-	-	-	5,229	-	-	-	-	-	-	4	-	5,042	10,275
	Due to Primary Government	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Due to Component Units	-	-	-	5,037	-	-	-	-	-	-	-	-	-	5,037
	Funds Held in Escrow	-	-	-	-	-	-	-	-	447	-	867	-	-	1,314
	Due to Other Governmental Units	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unearned Revenue	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	General Obligation Bonds	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Revenue Bonds	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Unamortized Loss - Refunded Debt	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unamortized Discount on Revenue Bond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Obligations Under Capital Leases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Liabilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Liabilities		26	2,803	2,508	13,444	-	1,083	1,067	-	564	-	1,730	4,187	5,180	32,592
Deferred Inflows of Resources		-	-	209	2,750	2	-	2	-	-	-	-	-	-	2,963
Fund Balances															
Nonspendable		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Restricted		1,901	35,214	12,279	-	6,380	20,767	11,195	-	-	-	10,749	152	25,538	124,175
Committed		-	-	-	-	-	-	-	30	2,851	-	1,663	-	-	4,544
Assigned		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unassigned		-	-	-	(5,309)	-	-	-	-	-	-	-	-	-	(5,309)
Total Fund Balances		1,901	35,214	12,279	(5,309)	6,380	20,767	11,195	30	2,851	-	12,412	152	25,538	123,410
Total Liabilities, Deferred Inflows of Resources, and Fund Balances		1,927	38,017	14,996	10,885	6,382	21,850	12,264	30	3,415	-	14,142	4,339	30,718	158,965

City of Philadelphia  
Combining Balance Sheet  
Non-Major Governmental Funds(Continued)  
June 30, 2016

Schedule I

Amounts in thousands of USD

	Debt Service				Capital Improvement			Permanent	Total
	City	Municipal Authority	PICA	Total	City	Municipal Authority	Total	Libraries & Parks	Non-Major Governmental Funds
<b>Assets</b>									
Cash on Deposit and on Hand	-	-	13,457	13,457	-	-	-	348	38,561
Equity in Treasurer's Account	987	-	-	987	138,973	-	138,973	-	235,733
Investments	-	30	66,988	67,018	-	28,137	28,137	6,068	112,004
Due from Other Funds	-	-	-	-	-	-	-	-	39
Due from Component Units	-	-	-	-	-	-	-	-	-
Amounts Held by Fiscal Agent	-	-	-	-	-	-	-	-	-
Notes Receivable	-	-	-	-	-	-	-	-	-
Taxes Receivable	-	-	-	-	-	-	-	-	13,196
Accounts Receivable	-	-	-	-	-	-	-	-	6,452
Due from Other Governmental Units	-	-	-	-	75,175	-	75,175	-	83,656
Allowance for Doubtful Accounts	-	-	-	-	-	-	-	-	(897)
Interest and Dividends Receivable	-	-	7	7	1	-	1	-	16
Inventories	-	-	-	-	-	-	-	-	-
Other Assets	-	-	-	-	-	-	-	1	377
Total Assets	987	30	80,452	81,469	214,149	28,137	242,286	6,417	489,137
<b>Liabilities</b>									
Notes Payable	-	-	-	-	-	-	-	-	-
Vouchers Payable	-	-	-	-	12,102	-	12,102	-	16,368
Accounts Payable	-	-	-	-	17,410	3,363	20,773	10	32,255
Salaries and Wages Payable	-	-	-	-	232	-	232	-	418
Payroll Taxes Payable	-	-	-	-	-	-	-	-	42
Accrued Expenses	-	-	-	-	-	-	-	-	-
Due to Other Funds	-	-	-	-	-	-	-	35	10,310
Due to Primary Government	-	-	-	-	-	-	-	-	-
Due to Component Units	-	-	-	-	-	-	-	-	5,037
Funds Held in Escrow	-	-	-	-	2,720	-	2,720	-	4,034
Due to Other Governmental Units	-	-	-	-	-	-	-	-	-
Unearned Revenue	-	-	-	-	8,847	-	8,847	-	8,847
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Revenue Bonds	-	-	-	-	-	-	-	-	-
Unamortized Loss - Refunded Debt	-	-	-	-	-	-	-	-	-
Unamortized Discount on Revenue B	-	-	-	-	-	-	-	-	-
Obligations Under Capital Leases	-	-	-	-	-	-	-	-	-
Other Liabilities	-	-	-	-	-	-	-	-	-
Total Liabilities	-	-	-	-	41,311	3,363	44,674	45	77,311
<b>Deferred Inflows of Resources</b>	-	-	-	-	64,521	-	64,521	-	67,484
<b>Fund Balances</b>									
Nonspendable	-	-	-	-	-	-	-	3,137	3,137
Restricted	987	30	80,452	81,469	108,317	24,774	133,091	3,235	341,970
Committed	-	-	-	-	-	-	-	-	4,544
Assigned	-	-	-	-	-	-	-	-	-
Unassigned	-	-	-	-	-	-	-	-	(5,309)
Total Fund Balances	987	30	80,452	81,469	108,317	24,774	133,091	6,372	344,342
Total Liabilities, Deferred Inflows of Resources, and Fund Balances	987	30	80,452	81,469	214,149	28,137	242,286	6,417	489,137

## City of Philadelphia

## Schedule II

## Combining Statement of Revenues, Expenditures and Changes in Fund Balances

## Non-Major Governmental Funds

For the Fiscal Year Ended June 30, 2016

Amounts in thousands of USD

Special Revenue														
	County Liquid Fuels Tax	Special Gasoline Tax	Hotel Room Rental Tax	Community Development	Car Rental Tax	Housing Trust	Acute Care Hospital Assessment	Riverview Residents	Philadelphia Prisons	Arbitration Appeals	Departmental	Municipal Authority Administrative	PICA Administrative	Total
<b>Revenues</b>														
Tax Revenue	-	-	58,500	-	5,691	-	147,054	-	-	-	-	-	446,680	657,925
Locally Generated Non-Tax Revenue	-	2	-	3,362	20	13,082	-	-	3,039	356	4,058	50	136	24,105
Revenue from Other Governments	4,593	33,423	-	44,407	-	-	-	-	-	-	-	-	-	82,423
Other Revenues	-	-	-	-	-	-	-	-	-	-	967	-	1,681	2,648
Total Revenues	4,593	33,425	58,500	47,769	5,711	13,082	147,054	-	3,039	356	5,025	50	448,497	767,101
<b>Expenditures</b>														
Current Operating:														
Economic Development	-	-	58,062	-	-	-	-	-	-	-	-	-	-	58,062
Transportation:														
Streets & Highways	4,959	27,822	-	-	-	-	-	-	-	-	-	-	-	32,781
Mass Transit	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Judiciary and Law Enforcement:														
Prisons	-	-	-	-	-	-	-	-	2,645	-	-	-	-	2,645
Conservation of Health:														
Health Services	-	-	-	-	-	-	144,892	-	-	-	-	-	-	144,892
Housing and Neighborhood Development	-	-	-	45,971	-	10,855	-	-	-	-	-	-	-	56,826
Cultural and Recreational:														
Parks & Recreation	-	-	-	-	-	-	-	-	-	-	1,386	-	-	1,386
Libraries and Museums	-	-	-	-	-	-	-	-	-	-	115	-	-	115
Improvements to General Welfare:														
Service to Property:														
General Management and Support	-	-	-	-	6,000	-	-	-	772	356	2,938	42,145	1,353	53,564
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	2	2
Debt Service:														
Principal	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bond Issuance Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Lease Principal	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Lease Interest	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	4,959	27,822	58,062	45,971	6,000	10,855	144,892	-	3,417	356	4,439	42,145	1,355	350,273
Excess (Deficiency) of Revenues Over (Under) Expenditures														
	(366)	5,603	438	1,798	(289)	2,227	2,162	-	(378)	-	586	(42,095)	447,142	416,828
<b>Other Financing Sources (Uses)</b>														
Issuance of Debt	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Issuance of Refunding Bonds	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bond Issuance Premium	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bond Issuance Discountor or payment	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds from Lease & Service Agreements	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Payment to Refunded Bonds Escrow Agent	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transfers In	-	-	-	-	-	-	-	-	-	-	1,278	41,936	-	43,214
Transfers Out	-	-	-	-	-	-	(2,000)	-	-	-	-	-	(449,946)	(451,946)
Total Other Financing Sources (Uses)	-	-	-	-	-	-	(2,000)	-	-	-	1,278	41,936	(449,946)	(408,732)
Net Change in Fund Balances	(366)	5,603	438	1,798	(289)	2,227	162	-	(378)	-	1,864	(159)	(2,804)	8,096
Fund Balance - July 1, 2015	2,267	29,611	11,841	(7,107)	6,669	18,540	11,033	30	3,229	-	10,559	311	28,342	115,325
Adjustment	-	-	-	-	-	-	-	-	-	-	(11)	-	-	(11)
Fund Balance Adjusted - July 1, 2015	2,267	29,611	11,841	(7,107)	6,669	18,540	11,033	30	3,229	-	10,548	311	28,342	115,314
Fund Balance - June 30, 2016	1,901	35,214	12,279	(5,309)	6,380	20,767	11,195	30	2,851	-	12,412	152	25,538	123,410

## City of Philadelphia

## Schedule II

## Combining Statement of Revenues, Expenditures and Changes in Fund Balances

Non-Major Governmental Funds(Continued)

For the Fiscal Year Ended June 30, 2016

Amounts in thousands of USD

	Debt Service				Capital Improvement			Permanent	Total Non-Major Governmental Funds
	City	Municipal Authority	PICA	Total	City	Municipal Authority	Total	Libraries & Parks	
<b>Revenues</b>									
Tax Revenue	-	-	-	-	-	-	-	-	657,925
Locally Generated Non-Tax Revenue	1	-	2,294	2,295	-	49	49	(98)	26,351
Revenue from Other Governments	-	-	-	-	51,271	-	51,271	-	133,694
Other Revenues	-	-	-	-	406	-	406	-	3,054
Total Revenues	1	-	2,294	2,295	51,677	49	51,726	(98)	821,024
<b>Expenditures</b>									
Current Operating:									
Economic Development	-	-	-	-	-	-	-	-	58,062
Transportation:									
Streets & Highways	-	-	-	-	-	-	-	-	32,781
Mass Transit	-	-	-	-	-	-	-	-	-
Judiciary and Law Enforcement:									
Prisons	-	-	-	-	-	-	-	-	2,645
Conservation of Health:									
Health Services	-	-	-	-	-	-	-	-	144,892
Housing and Neighborhood Development	-	-	-	-	-	-	-	-	56,826
Cultural and Recreational:									
Parks & Recreation	-	-	-	-	-	-	-	102	1,488
Libraries and Museums	-	-	-	-	-	-	-	1	116
Improvements to General Welfare:									
Service to Property:									
General Management and Support	-	-	-	-	-	14	14	-	53,578
Capital Outlay	-	-	-	-	189,323	16,739	206,062	-	206,064
Debt Service:									
Principal	59,175	23,858	49,860	132,893	-	-	-	-	132,893
Interest	67,889	12,178	15,757	95,824	-	-	-	-	95,824
Bond Issuance Cost	1,080	-	-	1,080	1,273	-	1,273	-	2,353
Capital Lease Principal	-	-	-	-	-	-	-	-	-
Capital Lease Interest	-	-	-	-	-	-	-	-	-
Total Expenditures	128,144	36,036	65,617	229,797	190,596	16,753	207,349	103	787,522
Excess (Deficiency) of Revenues Over (Under) Expenditures	(128,143)	(36,036)	(63,323)	(227,502)	(138,919)	(16,704)	(155,623)	(201)	33,502
<b>Other Financing Sources (Uses)</b>									
Issuance of Debt	-	-	-	-	191,585	-	191,585	-	191,585
Issuance of Refunding Bonds	138,795	-	-	138,795	-	-	-	-	138,795
Bond Issuance Premium	18,201	-	-	18,201	19,696	-	19,696	-	37,897
Bond Issuance Discount or payment	-	-	-	-	-	-	-	-	-
Proceeds from Lease & Service Agreements	-	-	-	-	-	-	-	-	-
Payment to Refunded Bonds Escrow Agent	(155,916)	-	-	(155,916)	-	-	-	-	(155,916)
Transfers In	126,970	36,016	63,752	226,738	7,226	-	7,226	-	277,178
Transfers Out	-	-	-	-	-	-	-	(136)	(452,082)
Total Other Financing Sources (Uses)	128,050	36,016	63,752	227,818	218,507	-	218,507	(136)	37,457
Net Change in Fund Balances	(93)	(20)	429	316	79,588	(16,704)	62,884	(337)	70,959
Fund Balance - July 1, 2015	1,080	50	80,023	81,153	28,729	41,478	70,207	6,709	273,394
Adjustment	-	-	-	-	-	-	-	-	(11)
Fund Balance Adjusted - July 1, 2015	1,080	50	80,023	81,153	28,729	41,478	70,207	6,709	273,383
Fund Balance - June 30, 2016	987	30	80,452	81,469	108,317	24,774	133,091	6,372	344,342

**City of Philadelphia**  
**Combining Statement of Fiduciary Net Position**  
**Pension Trust Funds**  
**June 30, 2016**

**Schedule III**

*Amounts in thousands of USD*

	Gas Works Retirement Reserve Fund	Municipal Pension Fund	Total
<b><u>Assets</u></b>			
Cash on Deposit and on Hand	16,987	-	16,987
Equity in Treasurer's Account	470,452	4,369,222	4,839,674
Securities Lending Collective Investment Pool	-	330,983	330,983
Allowance for Unrealized Loss	-	(315)	(315)
Accounts Receivable	5,879	33,183	39,062
Due from Brokers for Securities Sold	-	97,584	97,584
Interest and Dividends Receivable	1,084	-	1,084
Due from Other Governmental Units	-	9,199	9,199
	<hr/>	<hr/>	<hr/>
Total Assets	494,402	4,839,856	5,334,258
	<hr/>	<hr/>	<hr/>
<b><u>Liabilities</u></b>			
Vouchers Payable	-	30	30
Accounts Payable	391	38	429
Salaries and Wages Payable	-	110	110
Due on Return of Securities Loaned	-	330,983	330,983
Due to Brokers for Securities Purchased	6,175	146,747	152,922
Accrued Expenses	-	3,691	3,691
Other Liabilities	4,577	282	4,859
	<hr/>	<hr/>	<hr/>
Total Liabilities	11,143	481,881	493,024
	<hr/>	<hr/>	<hr/>
Net Position Held in Trust for Pension Benefits	<u>483,259</u>	<u>4,357,975</u>	<u>4,841,234</u>



**City of Philadelphia**  
**Combining Statement of Changes in Fiduciary Net Position**  
**Pension Trust Funds**  
**For the Fiscal Year Ended June 30, 2016**

**Schedule IV**

*Amounts in thousands of USD*

	Gas Works Retirement Reserve Fund	Municipal Pension Fund	Total
<b><u>Additions</u></b>			
Contributions:			
Employer's Contributions	21,122	660,247	681,369
Employees' Contributions	<u>602</u>	<u>67,055</u>	<u>67,657</u>
Total Contributions	<u>21,724</u>	<u>727,302</u>	<u>749,026</u>
Investment Income:			
Interest and Dividends	11,641	101,505	113,146
Net Gain (Decline) in Fair Value of Investments	-	(239,840)	(239,840)
(Less) Investments Expenses	(1,962)	(9,089)	(11,051)
Securities Lending Revenue	-	1,921	1,921
Unrealized Gain/Loss	(11,042)		(11,042)
(Less) Securities Lending Expenses	<u>-</u>	<u>(313)</u>	<u>(313)</u>
Net Investment Loss	<u>(1,363)</u>	<u>(145,817)</u>	<u>(147,180)</u>
Miscellaneous Operating Revenues	4,235	135	4,370
Total Additions	<u>24,596</u>	<u>581,620</u>	<u>606,216</u>
<b><u>Deductions</u></b>			
Personal Services	-	3,079	3,079
Purchase of Services	-	2,491	2,491
Materials and Supplies	-	44	44
Employee Benefits	-	2,861	2,861
Pension Benefits	50,446	881,992	932,438
Refunds of Members' Contributions	-	7,351	7,351
Administrative Expenses Paid	1,610	-	1,610
Other Operating Expenses	<u>-</u>	<u>78</u>	<u>78</u>
Total Deductions	<u>52,056</u>	<u>897,897</u>	<u>949,953</u>
Change in Net Position	(27,460)	(316,277)	(343,737)
Net Position - July 1, 2015	<u>510,719</u>	<u>4,674,252</u>	<u>5,184,971</u>
Net Position - June 30, 2016	<u><u>483,259</u></u>	<u><u>4,357,975</u></u>	<u><u>4,841,234</u></u>

**City of Philadelphia**  
**Combining Statement of Fiduciary Net Position**  
**Agency Funds**  
**June 30, 2016**

**Schedule V**

*Amounts in thousands of USD*

	<u>Escrow Fund</u>	<u>Employee Health &amp; Welfare Fund</u>	<u>Departmental Custodial Accounts</u>	<u>Total</u>
<b><u>Assets</u></b>				
Cash on Deposit and on Hand	-	-	108,456	108,456
Equity in Treasurer's Account	31,875	18,696	-	50,571
Investments	-	-	2,352	2,352
Due from Other Funds	-	-	699	699
	<hr/>	<hr/>	<hr/>	<hr/>
Total Assets	31,875	18,696	111,507	162,078
	<hr/>	<hr/>	<hr/>	<hr/>
<b><u>Liabilities</u></b>				
Vouchers Payable	138	1	-	139
Payroll Taxes Payable	-	5,384	-	5,384
Funds Held in Escrow	31,737	13,311	111,507	156,555
	<hr/>	<hr/>	<hr/>	<hr/>
Total Liabilities	31,875	18,696	111,507	162,078
	<hr/>	<hr/>	<hr/>	<hr/>
Net Position	-	-	-	-
	<hr/>	<hr/>	<hr/>	<hr/>

City of Philadelphia  
Statement of Changes in Fiduciary Net Position  
Agency Funds  
For the Fiscal Year Ended June 30, 2016

Schedule VI

Amounts in thousands of USD

	Balance 7-1-2015	Additions	Deductions	Balance 6-30-2016
<b><u>Escrow Fund</u></b>				
<b><u>Assets</u></b>				
Equity in Treasurer's Account	28,228	483,128	479,481	31,875
<b><u>Liabilities</u></b>				
Funds Held in Escrow	28,222	451,347	447,832	31,737
Vouchers Payable	6	2,614	2,482	138
<b>Total Liabilities</b>	<b>28,228</b>	<b>453,961</b>	<b>450,314</b>	<b>31,875</b>
<b><u>Employee Health and Welfare Fund</u></b>				
<b><u>Assets</u></b>				
Equity in Treasurer's Account	15,109	1,029,830	1,026,243	18,696
<b><u>Liabilities</u></b>				
Vouchers Payable	22	9,374	9,395	1
Payroll Taxes Payable	1,552	931,376	927,544	5,384
Funds Held in Escrow	13,535	98,333	98,557	13,311
<b>Total Liabilities</b>	<b>15,109</b>	<b>1,039,083</b>	<b>1,035,496</b>	<b>18,696</b>
<b><u>Departmental Custodial Accounts</u></b>				
<b><u>Assets</u></b>				
Cash on Deposit and on Hand	92,044	383,813	367,401	108,456
Investments	4,652	-	2,300	2,352
Due from Other Funds	699	-	-	699
<b>Total Assets</b>	<b>97,395</b>	<b>383,813</b>	<b>369,701</b>	<b>111,507</b>
<b><u>Liabilities</u></b>				
Funds Held in Escrow	97,395	383,813	369,701	111,507
<b><u>Totals - Agency Funds</u></b>				
<b><u>Assets</u></b>				
Cash on Deposit and on Hand	92,044	383,813	367,401	108,456
Equity in Treasurer's Account	43,337	1,512,958	1,505,724	50,571
Investments	4,652	-	2,300	2,352
Due from Other Funds	699	-	-	699
<b>Total Assets</b>	<b>140,732</b>	<b>1,896,771</b>	<b>1,875,425</b>	<b>162,078</b>
<b><u>Liabilities</u></b>				
Vouchers Payable	28	11,988	11,877	139
Payroll Taxes Payable	1,552	931,376	927,544	5,384
Funds Held in Escrow	139,152	933,493	916,090	156,555
<b>Total Liabilities</b>	<b>140,732</b>	<b>1,876,857</b>	<b>1,855,511</b>	<b>162,078</b>

**City of Philadelphia**  
**City Related Schedule of Bonded Debt Outstanding**  
**June 30, 2016**

**Schedule VII**

*Amounts in USD*

	<u>Date of</u>	<u>Issued</u>	<u>Fiscal 2016</u>	<u>Maturities</u>	<u>Interest</u>	<u>FY 2017 Debt Service Requirements</u>	
	<u>Issuance</u>		<u>Outstanding</u>		<u>Rates</u>	<u>Interest</u>	<u>Principal</u>
<b><u>Governmental Activities</u></b>							
<b>General Obligation Bonds:</b>							
Series 2006	7/27/2006	217,590,000	48,715,000	8/2016 to 8/2031	4.75 to 5.00	2,227,950	7,035,000
Series 2007A (Refunding)	12/20/2007	188,910,000	90,505,000	8/2016 to 8/2019	5.00 to 5.25	4,038,763	23,260,000
Series 2008A (Refunding)	5/1/2008	195,170,000	178,720,000	12/2016 to 12/2032	5.00 to 5.25	9,104,487	8,500,000
Series 2008B	1/6/2009	165,000,000	2,850,000	7/2016	5.50	78,375	2,850,000
Series 2009A (Refunding)	8/13/2009	237,025,000	237,025,000	8/2019 to 8/2031	4.25 to 5.45	12,030,260	-
Series 2009B (Refunding)	8/13/2009 <sup>1</sup>	100,000,000	100,000,000	8/2027 to 8/2031	variable	4,239,000	-
Series 2011	4/19/2011	139,150,000	107,625,000	8/2016 to 8/2041	5.00 to 6.50	6,321,494	2,335,000
Series 2011 (Refunding)	4/19/2011	114,570,000	48,745,000	8/2016 to 8/2020	3.00 to 5.25	2,107,435	10,585,000
Series 2012A (Refunding)	5/8/2012	21,295,000	19,925,000	9/2016 to 9/2021	5.00	996,250	-
Series 2013A	7/30/2013	201,360,000	188,965,000	7/2016 to 7/2033	5.00 to 5.25	9,493,025	6,620,000
Series 2014A (Refunding)	2/6/2014	154,275,000	152,120,000	7/2016 to 7/2038	3.00 to 5.25	7,670,837	900,000
Series 2015A (Refunding)	7/8/2015	138,795,000	138,795,000	8/1/2017 8/1/2031	4.00 to 5.00	6,865,700	-
Series 2015B	9/30/2015	191,585,000	191,585,000	8/1/2016 8/1/2035	2.00 to 5.00	9,061,250	5,805,000
<b>Total New Money Bonds</b>		<b>914,685,000</b>	<b>539,740,000</b>			<b>27,182,094</b>	<b>24,645,000</b>
<b>Total Refunding Bonds</b>		<b>1,150,040,000</b>	<b>965,835,000</b>			<b>47,052,732</b>	<b>43,245,000</b>
<b>Total General Obligation Bonds</b>		<b>2,064,725,000</b>	<b>1,505,575,000</b>			<b>74,234,826</b>	<b>67,890,000</b>

**Business Type Activities**

**Revenue Bonds**

**Water and Sewer Revenue Bonds:**

Series 1997B	11/25/1997 <sup>2</sup>	100,000,000	56,900,000	8/2016 to 8/2027	variable	32,763	3,700,000
Series 1999	4/22/1999	6,700,000	246,934	7/2016 to 4/2019	2.729	5,681	84,984
Series 2005B (Refunding)	5/4/2005 <sup>1</sup>	86,105,000	35,325,000	8/2016 to 8/2018	variable	1,211,888	17,145,000
Series 2007A (Refunding)	5/9/2007	191,440,000	89,655,000	8/2017 to 8/2027	4.50 to 5.00	3,947,450	9,440,000
Series 2007B (Refunding)	5/9/2007	153,595,000	151,720,000	11/2016 to 11/2031	4.00 to 5.00	6,902,675	265,000
Series 2009A	5/21/2009	140,000,000	140,000,000	1/2017 to 1/2036	4.00 to 5.75	7,294,038	4,135,000
Series 2009B	10/14/2009	29,432,930	21,464,949	7/2016 to 6/2033	1.193	244,253	2,167,088
Series 2009C	10/14/2009	46,699,887	35,528,947	7/2016 to 6/2033	1.193	408,520	2,811,482
Series 2009D	3/31/2010	71,956,891	56,396,744	7/2016 to 6/2033	1.193	649,561	4,261,715
Series 2010B	6/17/2010	28,500,000	25,101,563	7/2016 to 6/2033	1.193	291,724	1,418,144
Series 2010A (Refunding)	4/15/2010	396,460,000	102,395,000	6/2017 to 6/2019	2.00 to 5.00	4,920,498	32,515,000
Series 2010C	8/5/2010	185,000,000	185,000,000	8/2016 to 8/2040	3.00 to 5.00	8,241,125	31,755,000
Series 2011A	11/16/2011	135,000,000	135,000,000	1/2033 to 1/2041	5.00	6,737,000	-
Series 2011B (Refunding)	11/16/2011	49,855,000	49,855,000	11/2016 to 11/2026	5.00	2,329,625	5,635,000
Series 2012 (Refunding)	11/1/2012	70,370,000	65,005,000	11/2025 to 11/2028	5.00	3,250,250	-
Series 2013A	8/22/2013	170,000,000	170,000,000	1/2017 to 1/2043	4.00 to 5.125	8,471,700	3,425,000
Series 2014 (Refunding)	1/23/2014	93,170,000	93,170,000	7/2016 to 7/2027	3.00 to 5.00	4,364,500	5,970,000
Series 2014	1/23/2014	30,000,000	30,000,000	7/2041 to 7/2043	5.00	1,500,000	-

**City of Philadelphia**  
**City Related Schedule of Bonded Debt Outstanding**  
**June 30, 2016**

**Schedule VII**

*Amounts in USD*

	<u>Date of</u>	<u>Issued</u>	<u>Fiscal 2016</u>	<u>Maturities</u>	<u>Interest</u>	<u>FY 2017 Debt Service Requirements</u>	
	<u>Issuance</u>		<u>Outstanding</u>		<u>Rates</u>	<u>Interest</u>	<u>Principal</u>
Series 2015A	4/16/2015	275,820,000	275,820,000	7/2040 to 7/2045	5.00	13,791,000	-
Series 2015B (Refunding)	4/16/2015	141,740,000	141,740,000	7/2019 to 7/2033	4.00 to 5.00	6,810,100	-
<u>Total New Money Bonds</u>		<u>1,219,109,708</u>	<u>1,131,459,137</u>			<u>47,667,365</u>	<u>53,758,413</u>
<u>Total Refunding Bonds</u>		<u>1,182,735,000</u>	<u>728,865,000</u>			<u>33,736,986</u>	<u>70,970,000</u>
<u>Total Water Revenue Bonds</u>		<u>2,401,844,708</u>	<u>1,860,324,137</u>			<u>81,404,351</u>	<u>124,728,413</u>
<b>Aviation Revenue Bonds:</b>							
Series 1998B	7/15/1998	443,700,000	5,000	7/1/2028	5.125	256	-
Series 2005C (Refunding)	6/2/2005 <sup>1</sup>	189,500,000	121,400,000	6/2017 to 6/2025	variable	5,478,620	10,700,000
Series 2007A	8/16/2007	172,470,000	151,010,000	6/2017 to 6/2037	5.00	7,550,500	4,230,000
Series 2007B (Refunding)	8/16/2007	82,915,000	51,160,000	6/2017 to 6/2027	5.00	2,558,000	4,375,000
Series 2009A (Refunding)	4/14/2009	45,715,000	34,965,000	6/2017 to 6/2029	4.00 to 5.375	1,710,704	2,035,000
Series 2010A	11/15/2010	273,065,000	257,100,000	6/2017 to 6/2040	3.75 to 5.25	12,878,962	5,790,000
Series 2010C (Refunding)	11/15/2010	54,730,000	17,565,000	6/2017 to 6/2018	5.00	878,250	8,570,000
Series 2010D (Refunding)	11/15/2010	272,475,000	201,795,000	6/2017 to 6/2028	4.00 to 5.25	10,364,200	16,040,000
Series 2011A (Refunding)	12/14/2011	199,040,000	168,225,000	6/2017 to 6/2028	4.625 to 5.00	8,355,656	6,985,000
Series 2011B (Refunding)	12/14/2011	34,790,000	27,820,000	6/2017 to 6/2031	3.375 to 5.00	1,214,019	1,380,000
Series 2015A (Refunding)	9/3/2015	97,780,000	93,660,000	6/2017 to 6/2035	4.00 to 5.00	4,533,550	3,135,000
<u>Total New Money Bonds</u>		<u>889,235,000</u>	<u>408,115,000</u>			<u>20,429,718</u>	<u>10,020,000</u>
<u>Total Refunding Bonds</u>		<u>976,945,000</u>	<u>716,590,000</u>			<u>35,092,999</u>	<u>53,220,000</u>
<u>Total Aviation Revenue Bonds</u>		<u>1,866,180,000</u>	<u>1,124,705,000</u>			<u>55,522,717</u>	<u>63,240,000</u>
<u>Total Revenue Bonds</u>		<u>4,268,024,708</u>	<u>2,985,029,137</u>			<u>136,927,068</u>	<u>187,968,413</u>
<u>Total All Bonds</u>		<u>6,332,749,708</u>	<u>4,490,604,137</u>			<u>211,161,894</u>	<u>255,858,413</u>

**NOTES:**

<sup>1</sup> Assumes interest rate to be fixed swap rate on hedged variable rate bonds

<sup>2</sup> Based on latest available estimated rates at June 30, 2016

City of Philadelphia  
 Budgetary Comparison Schedule  
 Water Operating Fund  
 For the Fiscal Year Ended June 30, 2016

Schedule VIII

Amounts in thousands of USD

	<u>Budgeted Amounts</u>		<u>Actual</u>	Final Budget to Actual Positive (Negative)
	<u>Original</u>	<u>Final</u>		
<b><u>Revenues</u></b>				
Locally Generated Non-Tax Revenue	630,701	630,979	643,035	12,056
Revenue from Other Governments	975	744	744	-
Revenue from Other Funds	105,638	87,233	36,756	(50,477)
Total Revenues	737,314	718,956	680,535	(38,421)
<b><u>Expenditures and Encumbrances</u></b>				
Personal Services	126,121	126,131	118,415	7,716
Pension Contributions	57,800	59,115	59,115	-
Other Employee Benefits	53,115	51,790	47,276	4,514
Sub-Total Employee Compensation	237,036	237,036	224,806	12,230
Purchase of Services	177,090	177,090	148,989	28,101
Materials and Supplies	49,037	48,849	42,799	6,050
Equipment	5,407	5,595	2,722	2,873
Contributions, Indemnities and Taxes	6,605	6,605	5,441	1,164
Debt Service	227,139	227,139	219,133	8,006
Payments to Other Funds	65,000	65,000	60,733	4,267
Total Expenditures and Encumbrances	767,314	767,314	704,623	62,691
Operating Surplus (Deficit) for the Year	(30,000)	(48,358)	(24,088)	24,270
Fund Balance Available for Appropriation, July 1, 2015	-	-	-	-
<b><u>Operations in Respect to Prior Fiscal Years</u></b>				
Commitments Cancelled - Net	30,000	30,000	24,088	(5,912)
Adjusted Fund Balance, July 1, 2015	30,000	30,000	24,088	(5,912)
Fund Balance Available for Appropriation, June 30, 2016	-	(18,358)	-	18,358

City of Philadelphia  
 Budgetary Comparison Schedule  
 Water Residual Fund  
 For the Fiscal Year Ended June 30, 2016

Schedule IX

Amounts in thousands of USD

	<u>Budgeted Amounts</u>			Final Budget to Actual Positive (Negative)
	<u>Original</u>	<u>Final</u>	<u>Actual</u>	
<b><u>Revenues</u></b>				
Locally Generated Non-Tax Revenue	1,224	1,224	34	(1,190)
Revenue from Other Funds	<u>33,248</u>	<u>33,248</u>	<u>32,692</u>	<u>(556)</u>
Total Revenues	34,472	34,472	32,726	(1,746)
<b><u>Expenditures and Encumbrances</u></b>				
Payments to Other Funds	<u>34,724</u>	<u>34,724</u>	<u>32,556</u>	<u>2,168</u>
Total Expenditures and Encumbrances	<u>34,724</u>	<u>34,724</u>	<u>32,556</u>	<u>2,168</u>
Operating Surplus (Deficit) for the Year	<u>(252)</u>	<u>(252)</u>	<u>170</u>	<u>422</u>
Fund Balance Available for Appropriation, July 1, 2015	5,467	14,936	14,936	-
Fund Balance Available for Appropriation, June 30, 2016	<u>5,215</u>	<u>14,684</u>	<u>15,106</u>	<u>422</u>

**City of Philadelphia**  
**Budgetary Comparison Schedule**  
**County Liquid Fuels Tax Fund**  
**For the Fiscal Year Ended June 30, 2016**

**Schedule X**

*Amounts in thousands of USD*

	<u>Budgeted Amounts</u>			Final Budget to Actual Positive (Negative)
	<u>Original</u>	<u>Final</u>	<u>Actual</u>	
<b><u>Revenues</u></b>				
Revenue from Other Governments	<u>4,950</u>	<u>4,950</u>	<u>4,593</u>	<u>(357)</u>
Total Revenues	<u>4,950</u>	<u>4,950</u>	<u>4,593</u>	<u>(357)</u>
<b><u>Expenditures and Encumbrances</u></b>				
Personal Services	3,734	3,734	3,734	-
Purchase of Services	861	861	856	5
Materials and Supplies	336	336	235	101
Equipment	-	-	95	(95)
Payments to Other Funds	<u>19</u>	<u>19</u>	<u>19</u>	<u>-</u>
Total Expenditures and Encumbrances	<u>4,950</u>	<u>4,950</u>	<u>4,939</u>	<u>11</u>
Operating Surplus (Deficit) for the Year	<u>-</u>	<u>-</u>	<u>(346)</u>	<u>(346)</u>
Fund Balance Available for Appropriation, July 1, 2015	2,436	2,101	2,101	-
<b><u>Operations in Respect to Prior Fiscal Years</u></b>				
Commitments Cancelled - Net	<u>25</u>	<u>25</u>	<u>42</u>	<u>17</u>
Adjusted Fund Balance, July 1, 2015	<u>2,461</u>	<u>2,126</u>	<u>2,143</u>	<u>17</u>
Fund Balance Available for Appropriation, June 30, 2016	<u>2,461</u>	<u>2,126</u>	<u>1,797</u>	<u>(329)</u>



City of Philadelphia  
 Budgetary Comparison Schedule  
 Special Gasoline Tax Fund  
 For the Fiscal Year Ended June 30, 2016

Schedule XI

Amounts in thousands of USD

	<u>Budgeted Amounts</u>			Final Budget to Actual Positive (Negative)
	<u>Original</u>	<u>Final</u>	<u>Actual</u>	
<b><u>Revenues</u></b>				
Locally Generated Non-Tax Revenue	1	1	2	1
Revenue from Other Governments	<u>30,000</u>	<u>30,000</u>	<u>33,423</u>	<u>3,423</u>
Total Revenues	30,001	30,001	33,425	3,424
<b><u>Expenditures and Encumbrances</u></b>				
Personal Services	3,000	3,000	3,000	-
Pension Contributions	500	500	500	-
Other Employee Benefits	<u>500</u>	<u>500</u>	<u>500</u>	<u>-</u>
Sub-Total Employee Compensation	4,000	4,000	4,000	-
Purchase of Services	15,559	16,113	15,003	1,110
Materials and Supplies	9,926	9,372	9,253	119
Payments to Other Funds	<u>15</u>	<u>15</u>	<u>15</u>	<u>-</u>
Total Expenditures and Encumbrances	<u>29,500</u>	<u>29,500</u>	<u>28,271</u>	<u>1,229</u>
Operating Surplus (Deficit) for the Year	<u>501</u>	<u>501</u>	<u>5,154</u>	<u>4,653</u>
Fund Balance Available for Appropriation, July 1, 2015	23,347	25,655	25,655	-
<b><u>Operations in Respect to Prior Fiscal Years</u></b>				
Commitments Cancelled - Net	<u>500</u>	<u>500</u>	<u>717</u>	<u>217</u>
Adjusted Fund Balance, July 1, 2015	<u>23,847</u>	<u>26,155</u>	<u>26,372</u>	<u>217</u>
Fund Balance Available for Appropriation, June 30, 2016	<u><u>24,348</u></u>	<u><u>26,656</u></u>	<u><u>31,526</u></u>	<u><u>4,870</u></u>

City of Philadelphia  
 Budgetary Comparison Schedule  
 Hotel Room Rental Tax Fund  
 For the Fiscal Year Ended June 30, 2016

Schedule XII

Amounts in thousands of USD

	<u>Budgeted Amounts</u>		<u>Actual</u>	Final Budget to Actual Positive (Negative)
<u>Revenues</u>	<u>Original</u>	<u>Final</u>		
Taxes	<u>62,700</u>	<u>62,700</u>	<u>58,501</u>	<u>(4,199)</u>
Total Revenues	<u>62,700</u>	<u>62,700</u>	<u>58,501</u>	<u>(4,199)</u>
<u>Expenditures and Encumbrances</u>				
Contributions, Indemnities and Taxes	<u>62,700</u>	<u>62,000</u>	<u>62,700</u>	<u>(700)</u>
Total Expenditures and Encumbrances	<u>62,700</u>	<u>62,000</u>	<u>62,700</u>	<u>(700)</u>
Operating Surplus (Deficit) for the Year	<u>-</u>	<u>700</u>	<u>(4,199)</u>	<u>(4,899)</u>
Fund Balance Available for Appropriation, July 1, 2015	<u>3,584</u>	<u>5,037</u>	<u>5,037</u>	<u>-</u>
<u>Operations in Respect to Prior Fiscal Years</u>				
Commitments Cancelled - Net	<u>-</u>	<u>-</u>	<u>3,468</u>	<u>3,468</u>
Adjusted Fund Balance, July 1, 2015	<u>3,584</u>	<u>5,037</u>	<u>8,505</u>	<u>3,468</u>
Fund Balance Available for Appropriation, June 30, 2016	<u><u>3,584</u></u>	<u><u>5,737</u></u>	<u><u>4,306</u></u>	<u><u>(1,431)</u></u>

City of Philadelphia  
 Budgetary Comparison Schedule  
 Aviation Operating Fund  
 For the Fiscal Year Ended June 30, 2016

Schedule XIII

Amounts in thousands of USD

	<u>Budgeted Amounts</u>			Final Budget to Actual Positive (Negative)
	<u>Original</u>	<u>Final</u>	<u>Actual</u>	
<b><u>Revenues</u></b>				
Locally Generated Non-Tax Revenue	428,816	410,956	391,660	(19,296)
Revenue from Other Governments	4,500	4,500	2,137	(2,363)
Revenue from Other Funds	2,500	2,500	1,158	(1,342)
Total Revenues	435,816	417,956	394,955	(23,001)
<b><u>Expenditures and Encumbrances</u></b>				
Personal Services	71,874	71,874	66,544	5,330
Pension Contributions	31,300	33,535	33,515	20
Other Employee Benefits	25,894	23,660	19,476	4,184
Sub-Total Employee Compensation	129,068	129,069	119,535	9,534
Purchase of Services	137,169	137,169	107,552	29,617
Materials and Supplies	10,361	10,346	6,714	3,632
Equipment	8,940	8,954	2,775	6,179
Contributions, Indemnities and Taxes	6,717	6,717	1,696	5,021
Debt Service	123,505	123,505	117,282	6,223
Payments to Other Funds	24,623	24,623	7,539	17,084
Total Expenditures and Encumbrances	440,383	440,383	363,093	77,290
Operating Surplus (Deficit) for the Year	(4,567)	(22,427)	31,862	54,289
Fund Balance Available for Appropriation, July 1, 2015	27,410	28,348	28,348	-
<b><u>Operations in Respect to Prior Fiscal Years</u></b>				
Commitments Cancelled - Net	17,000	17,000	11,206	(5,794)
Adjusted Fund Balance, July 1, 2015	44,410	45,348	39,554	(5,794)
Fund Balance Available for Appropriation, June 30, 2016	39,843	22,921	71,416	48,495

City of Philadelphia  
 Budgetary Comparison Schedule  
 Community Development Fund  
 For the Fiscal Year Ended June 30, 2016

Schedule XIV

Amounts in thousands of USD

	<u>Budgeted Amounts</u>			Final Budget to Actual Positive (Negative)
	<u>Original</u>	<u>Final</u>	<u>Actual</u>	
<b><u>Revenues</u></b>				
Locally Generated Non-Tax Revenue	250	250	3,362	3,112
Revenue from Other Governments	93,911	73,911	40,174	(33,737)
Total Revenues	94,161	74,161	43,536	(30,625)
<b><u>Other Sources</u></b>				
Decrease in Financed Reserves	-	-	8,298	8,298
Total Revenues and Other Sources	94,161	74,161	51,834	(22,327)
<b><u>Expenditures and Encumbrances</u></b>				
Personal Services	6,518	6,518	3,996	2,522
Pension Contributions	2,609	2,609	1,614	995
Other Employee Benefits	1,627	1,627	1,457	170
Sub-Total Employee Compensation	10,754	10,754	7,067	3,687
Purchase of Services	63,088	63,088	45,105	17,983
Materials and Supplies	234	234	127	107
Equipment	55	55	22	33
Payments to Other Funds	20,000	20,000	20	19,980
Advances, Subsidies, Miscellaneous	30	30	-	30
Total Expenditures and Encumbrances	94,161	94,161	52,341	41,820
Operating Surplus (Deficit) for the Year	-	(20,000)	(507)	19,493
Fund Balance Available for Appropriation, July 1, 2015	-	(7,107)	(7,107)	-
<b><u>Operations in Respect to Prior Fiscal Years</u></b>				
Commitments Cancelled - Net	-	-	2,305	2,305
Prior Period Adjustments	-	7,107	-	(7,107)
Adjusted Fund Balance, July 1, 2015	-	-	(4,802)	(4,802)
Fund Balance Available for Appropriation, June 30, 2016	-	(20,000)	(5,309)	14,691

City of Philadelphia  
 Budgetary Comparison Schedule  
 Car Rental Tax Fund  
 For the Fiscal Year Ended June 30, 2016

Schedule XV

Amounts in thousands of USD

	<u>Budgeted Amounts</u>		<u>Actual</u>	Final Budget to Actual Positive (Negative)
<u>Revenues</u>	<u>Original</u>	<u>Final</u>		
Taxes	5,614	5,822	5,692	(130)
Locally Generated Non-Tax Revenue	<u>1</u>	<u>1</u>	<u>20</u>	<u>19</u>
Total Revenues	5,615	5,823	5,712	(111)
<u>Expenditures and Encumbrances</u>				
Purchase of Services	<u>6,000</u>	<u>6,000</u>	<u>6,000</u>	<u>-</u>
Total Expenditures and Encumbrances	6,000	6,000	6,000	-
Operating Surplus (Deficit) for the Year	<u>(385)</u>	<u>(177)</u>	<u>(288)</u>	<u>(111)</u>
Fund Balance Available for Appropriation, July 1, 2015	<u>7,273</u>	<u>6,669</u>	<u>6,669</u>	<u>-</u>
Fund Balance Available for Appropriation, June 30, 2016	<u><u>6,888</u></u>	<u><u>6,492</u></u>	<u><u>6,381</u></u>	<u><u>(111)</u></u>

City of Philadelphia  
 Budgetary Comparison Schedule  
 Housing Trust Fund  
 For the Fiscal Year Ended June 30, 2016

Schedule XVI

Amounts in thousands of USD

	<u>Budgeted Amounts</u>			Final Budget to Actual Positive (Negative)
	<u>Original</u>	<u>Final</u>	<u>Actual</u>	
<b><u>Revenues</u></b>				
Locally Generated Non-Tax Revenue	12,510	12,510	13,082	572
Revenue from Other Funds	-	-	-	-
Total Revenues	12,510	12,510	13,082	572
<b><u>Expenditures and Encumbrances</u></b>				
Personal Services	1,250	1,250	775	475
Purchase of Services	23,250	25,250	17,931	7,319
Total Expenditures and Encumbrances	24,500	26,500	18,706	7,794
Operating Surplus (Deficit) for the Year	(11,990)	(13,990)	(5,624)	8,366
Fund Balance Available for Appropriation, July 1, 2015	629	6,360	6,360	-
<b><u>Operations in Respect to Prior Fiscal Years</u></b>				
Commitments Cancelled - Net	12,000	8,000	1,480	(6,520)
Revenue Adjustments - Net	-	-	-	-
Prior Period Adjustments	-	-	-	-
Other Adjustments	-	-	-	-
Adjusted Fund Balance, July 1, 2015	12,629	14,360	7,840	(6,520)
Fund Balance Available for Appropriation, June 30, 2016	639	370	2,216	1,846

City of Philadelphia  
 Budgetary Comparison Schedule  
 General Capital Improvement Funds  
 For the Fiscal Year Ended June 30, 2016

Schedule XVII

Amounts in thousands of USD

	<u>Budgeted Amounts</u>			Final Budget to Actual Positive (Negative)
	<u>Original</u>	<u>Final</u>	<u>Actual</u>	
<b><u>Revenues</u></b>				
Locally Generated Non-Tax Revenue	542,473	543,473	406	(543,067)
Revenue from Other Governments	315,476	317,476	53,830	(263,646)
Revenue from Other Funds	24,764	32,271	4,668	(27,603)
Total Revenues	882,713	893,220	58,904	(834,316)
<b><u>Other Sources (Uses)</u></b>				
Decrease in Unreimbursed Commitments	-	-	(42,124)	(42,124)
Proceeds from Bond Sales	-	-	211,281	211,281
Total Revenues and Other Sources	882,713	893,220	228,061	(665,159)
<b><u>Expenditures and Encumbrances</u></b>				
Capital Outlay	882,713	893,220	150,058	743,162
Operating Surplus (Deficit) for the Year	-	-	78,003	78,003
Fund Balance Available for Appropriation, July 1, 2015	-	-	(118,437)	(118,437)
<b><u>Operations in Respect to Prior Fiscal Years</u></b>				
Commitments Cancelled - Net	-	-	3,135	3,135
Adjusted Fund Balance, July 1, 2015	-	-	(115,302)	(115,302)
Fund Balance Available for Appropriation, June 30, 2016	-	-	(37,299)	(37,299)

City of Philadelphia  
 Budgetary Comparison Schedule  
 Acute Care Hospital Assessment Fund  
 For the Fiscal Year Ended June 30, 2016

Schedule XVIII

Amounts in thousands of USD

	<u>Budgeted Amounts</u>		<u>Actual</u>	Final Budget to Actual Positive (Negative)
	<u>Original</u>	<u>Final</u>		
<b><u>Revenues</u></b>				
Tax Revenue	<u>157,000</u>	<u>157,000</u>	<u>147,054</u>	<u>(9,946)</u>
Total Revenues	<u>157,000</u>	<u>157,000</u>	<u>147,054</u>	<u>(9,946)</u>
<b><u>Other Sources</u></b>				
Decrease in Unreimbursed Commitments	<u>-</u>	<u>-</u>	<u>(1,278)</u>	<u>(1,278)</u>
Total Revenues and Other Sources	<u>157,000</u>	<u>157,000</u>	<u>145,776</u>	<u>(11,224)</u>
<b><u>Expenditures and Encumbrances</u></b>				
Personal Services	5,163	5,163	1,432	3,731
Pension Contributions	42	42	1	41
Other Employee Benefits	<u>226</u>	<u>225</u>	<u>5</u>	<u>220</u>
Sub-Total Employee Compensation	<u>5,431</u>	<u>5,430</u>	<u>1,438</u>	<u>3,992</u>
Purchase of Services	155,639	155,639	142,582	13,057
Materials and Supplies	96	96	9	87
Equipment	-	-	64	(64)
Payments to Other Funds	<u>2,000</u>	<u>2,000</u>	<u>2,000</u>	<u>-</u>
Total Expenditures and Encumbrances	<u>163,166</u>	<u>163,165</u>	<u>146,093</u>	<u>17,072</u>
Operating Surplus (Deficit) for the Year	<u>(6,166)</u>	<u>(6,165)</u>	<u>(317)</u>	<u>5,848</u>
Fund Balance Available for Appropriation, July 1, 2015	6,460	11,033	11,033	-
<b><u>Operations in Respect to Prior Fiscal Years</u></b>				
Commitments Cancelled - Net	<u>-</u>	<u>-</u>	<u>479</u>	<u>479</u>
Adjusted Fund Balance, July 1, 2015	<u>6,460</u>	<u>11,033</u>	<u>11,512</u>	<u>479</u>
Fund Balance Available for Appropriation, June 30, 2016	<u>294</u>	<u>4,868</u>	<u>11,195</u>	<u>6,327</u>



**City of Philadelphia**  
**Schedule of Budgetary Actual and Estimated Revenues and Obligations**  
**General Fund**  
**For the Fiscal Year Ended June 30, 2016 (with comparative actual amounts for the Fiscal Year Ended June 30, 2015)**

**Schedule XIX**

*Amounts in thousands of USD*

	Budgeted Amounts			Final Budget to Actual		
	Original	Final	FY 2016 Actual	Positive (Negative)	FY 2015 Actual	Increase (Decrease)
<b>Revenue</b>						
<b>Taxes</b>						
Real Property Tax:						
Current	535,416	524,416	521,242	(3,174)	493,099	28,143
Prior Years	45,701	48,954	50,405	1,451	43,350	7,055
Total Real Property Tax	581,117	573,370	571,647	(1,723)	536,449	35,198
Wage and Earnings Taxes:						
Current	1,364,063	1,373,011	1,364,612	(8,399)	1,318,753	45,859
Prior Years	6,500	6,500	8,397	1,897	7,094	1,303
Total Wage and Earnings Taxes	1,370,563	1,379,511	1,373,009	(6,502)	1,325,847	47,162
Business Taxes:						
Business Income & Receipts Taxes:						
Current	411,374	412,707	427,134	14,427	402,121	25,013
Prior Years	42,500	42,500	47,037	4,537	36,114	10,923
Total Business Income & Receipts Taxes	453,874	455,207	474,171	18,964	438,235	35,936
Net Profits Tax:						
Current	15,493	19,820	23,333	3,513	14,692	8,641
Prior Years	3,000	3,000	2,056	(944)	6,464	(4,408)
Total Net Profits Tax	18,493	22,820	25,389	2,569	21,156	4,233
Total Business Taxes	472,367	478,027	499,560	21,533	459,391	40,169
Other Taxes:						
Sales Tax	149,371	167,634	169,383	1,749	149,458	19,925
Amusement Tax	19,174	19,617	19,397	(220)	19,005	392
Real Property Transfer Tax	221,850	237,527	237,347	(180)	203,370	33,977
Parking Lot Tax	88,636	91,911	92,665	754	79,706	12,959
Smokeless Tobacco	640	753	771	18	749	22
Miscellaneous Taxes	8,561	3,075	2,869	(206)	3,045	(176)
Total Other Taxes	488,232	520,517	522,432	1,915	455,333	67,099
Total Taxes	2,912,279	2,951,425	2,966,648	15,223	2,777,020	189,628
<b>Locally Generated Non-Tax Revenue</b>						
Rentals from Leased City Properties	6,440	6,061	6,062	1	5,894	168
Licenses and Permits	55,876	56,298	56,040	(258)	55,356	684
Fines, Forfeits, Penalties, Confiscated						
Money and Property	18,478	17,529	17,579	50	19,532	(1,953)
Interest Income	1,969	4,725	5,628	903	1,751	3,877
Service Charges and Fees	135,942	137,471	137,040	(431)	129,566	7,474
Other	57,102	70,555	68,641	(1,914)	82,296	(13,655)
Total Locally Generated Non-Tax Revenue	275,807	292,639	290,990	(1,649)	294,395	(3,405)
<b>Revenue from Other Governments</b>						
United States Government:						
Grants and Reimbursements	29,417	29,710	29,655	(55)	30,109	(454)
Commonwealth of Pennsylvania:						
Grants and Other Payments	211,667	219,328	223,651	4,323	212,727	10,924
Other Governmental Units	410,731	430,684	435,770	5,086	406,485	29,285
Total Revenue from Other Governments	651,815	679,722	689,076	9,354	649,321	39,755
<b>Revenue from Other Funds</b>	65,240	62,410	42,253	(20,157)	39,031	3,222
Total Revenues	3,905,141	3,986,196	3,988,967	2,771	3,759,767	229,200

**City of Philadelphia**  
**Schedule of Budgetary Actual and Estimated Revenues and Obligations**  
**General Fund**  
**For the Fiscal Year Ended June 30, 2016 (with comparative actual amounts for the Fiscal Year Ended June 30, 2015)**

**Schedule XIX**

*Amounts in thousands of USD*

	Budgeted Amounts			Final Budget to Actual		
	Original	Final	FY 2016 Actual	Positive (Negative)	FY 2015 Actual	Increase (Decrease)
<b>Obligations</b>						
<b>General Government</b>						
City Council	41,725	17,316	15,512	(1,804)	14,635	877
Mayor's Office:						
Mayor's Office	5,032	5,414	5,327	(87)	5,001	326
Scholarships	200	200	200	-	200	-
Mural Arts Program	1,646	1,651	1,651	-	1,458	193
Labor Relations	572	572	509	(63)	667	(158)
MDO Office of Technology	83,882	87,613	68,166	(19,447)	63,874	4,292
Office of Property Assessment	13,285	13,284	12,253	(1,031)	12,569	(316)
Mayor's Office of Community Services	605	1,044	939	(105)	500	439
Transportation	734	734	691	(43)	799	(108)
Law	14,642	16,290	14,573	(1,717)	15,743	(1,170)
Board of Ethics	1,067	1,067	925	(142)	898	27
Youth Commission	143	143	101	(42)	72	29
Inspector General	1,669	1,669	1,647	(22)	1,487	160
Office of Sustainability	835	835	718	(117)	-	718
City Planning Commission	2,505	2,505	2,391	(114)	2,278	113
Commission on Human Relations	2,147	2,147	1,902	(245)	1,823	79
Zoning Code Commisssion	-	-	-	-	-	-
Arts & Culture	4,173	4,173	4,151	(22)	3,969	182
Board of Revision of Taxes	856	995	995	-	1,036	(41)
Total General Government	175,718	157,652	132,651	(25,001)	127,009	5,642
<b>Operation of Service Departments</b>						
Housing	3,590	3,593	3,590	(3)	2,600	990
Managing Director	78,755	81,949	81,949	-	78,029	3,920
Police	643,010	665,189	658,914	(6,275)	632,695	26,219
Streets	125,407	145,566	145,412	(154)	144,592	820
Fire	219,083	246,219	246,243	24	232,528	13,715
Public Health	116,292	122,908	121,476	(1,432)	113,480	7,996
Office-Behavioral Health/Mental Retardation	13,976	13,976	13,971	(5)	13,967	4
Parks and Recreation	57,875	60,575	59,693	(882)	56,719	2,974
Fairmount Park Commission	-	-	-	-	-	-
Atwater Kent Museum	293	292	273	(19)	231	42
Camp William Penn	-	-	-	-	-	-
Public Property	187,825	191,641	190,061	(1,580)	189,235	826
Department of Human Services	102,729	102,932	98,109	(4,823)	96,545	1,564
Philadelphia Prisons	253,792	254,873	252,998	(1,875)	246,158	6,840
Office of Supportive Housing	45,544	45,757	45,692	(65)	45,178	514
Office of Fleet Management	61,578	61,771	61,753	(18)	60,665	1,088
Licenses and Inspections	31,477	31,637	30,606	(1,031)	29,812	794
Board of L & I Review	168	168	150	(18)	138	12
Board of Building Standards	74	74	68	(6)	63	5
Zoning Board of Adjustment	372	372	361	(11)	374	(13)
Records	4,823	4,823	4,683	(140)	4,496	187
Philadelphia Historical Commission	425	425	343	(82)	384	(41)
Art Museum	2,550	2,620	2,620	-	2,585	35
Philadelphia Free Library	40,101	40,466	39,764	(702)	40,669	(905)
Total Operations of Service Departments	1,989,739	2,077,826	2,058,729	(19,097)	1,991,143	67,586
<b>Financial Management</b>						
Office of Director of Finance	14,431	20,264	19,638	(626)	15,748	3,890
Department of Revenue	25,771	26,212	25,031	(1,181)	23,023	2,008
Sinking Fund Commission	245,945	245,945	224,731	(21,214)	238,388	(13,657)
Procurement	4,838	5,838	5,369	(469)	4,859	510
City Treasurer	1,126	1,126	1,115	(11)	925	190
Audit of City Operations	8,295	8,615	8,412	(203)	8,272	140
Total Financial Management	300,406	308,000	284,296	(23,704)	291,215	(6,919)

City of Philadelphia  
Schedule of Budgetary Actual and Estimated Revenues and Obligations  
General Fund  
For the Fiscal Year Ended June 30, 2016 (with comparative actual amounts for the Fiscal Year Ended June 30, 2015)

Schedule XIX

Amounts in thousands of USD

	Budgeted Amounts			Final Budget to Actual		
	Original	Final	FY 2016 Actual	Positive (Negative)	FY 2015 Actual	Increase (Decrease)
<b>Obligations (Continued)</b>						
<b>City-Wide Appropriations Under the Director of Finance</b>						
Fringe Benefits	1,172,182	1,169,594	1,181,225	11,631	1,100,141	81,084
PGW Rental Reimbursement	-	-	-	-	-	-
Community College of Philadelphia	30,309	30,309	30,309	-	26,909	3,400
Legal Services	-	-	-	-	-	-
Hero Award	25	25	18	(7)	18	-
Refunds	250	250	-	(250)	-	-
Indemnities	38,000	4	-	(4)	-	-
Office of Risk Management	3,227	3,227	3,042	(185)	5,970	(2,928)
Witness Fees	172	172	119	(53)	121	(2)
Contribution to School District	79,185	104,185	104,185	-	69,110	35,075
Total City-Wide Under Director of Finance	1,323,350	1,307,766	1,318,898	11,132	1,202,269	116,629
<b>Promotion and Public Relations</b>						
City Representative	1,034	1,084	1,069	(15)	1,024	45
Commerce	23,058	24,164	22,963	(1,201)	24,180	(1,217)
Total Promotion and Public Relations	24,092	25,248	24,032	(1,216)	25,204	(1,172)
<b>Personnel</b>						
Civic Service Commission	178	181	180	(1)	184	(4)
Personnel Director	6,434	6,435	6,229	(206)	5,938	291
Total Personnel	6,612	6,616	6,409	(207)	6,122	287
<b>Administration of Justice</b>						
Clerk of Quarter Sessions	-	-	-	-	-	-
Register of Wills	3,522	3,772	3,670	(102)	3,608	62
District Attorney	35,482	35,698	35,698	-	35,561	137
Sheriff	19,203	23,431	23,431	-	22,188	1,243
First Judicial District	108,773	116,657	116,657	-	116,667	(10)
Total Administration of Justice	166,980	179,558	179,456	(102)	178,024	1,432
<b>City-Wide Appropriations Under the First Judicial District</b>						
Juror Fees	1,542	1,229	1,229	-	1,310	(81)
<b>Conduct of Elections</b>						
City Commissioners	9,663	10,097	10,095	(2)	9,219	876
Total Obligations	3,998,102	4,073,992	4,015,795	(58,197)	3,831,515	184,280
<b>Operating Surplus (Deficit) for the Year</b>	<b>(92,961)</b>	<b>(87,796)</b>	<b>(26,828)</b>	<b>(60,968)</b>	<b>(71,748)</b>	<b>44,920</b>

City of Philadelphia  
Schedule of Budgetary Actual and Estimated Revenues and Obligations  
Water Operating Fund

Schedule XX

Amounts in thousands of USD

For the Fiscal Year Ended June 30, 2016 (with comparative actual amounts for the Fiscal Year Ended June 30, 2015)

	Budgeted Amounts			Final Budget to Actual		
	Original	Final	FY 2016 Actual	Positive (Negative)	FY 2015 Actual	Increase (Decrease)
<b><u>Revenue</u></b>						
<b><u>Locally Generated Non-Tax Revenue</u></b>						
Sales and Charges - Current	528,596	528,596	547,139	18,543	546,084	1,055
Sales and Charges - Prior Years	47,324	47,324	40,433	(6,891)	39,827	606
Fire Service Connections	2,284	2,284	2,737	453	2,374	363
Surcharges	6,020	6,020	7,375	1,355	3,407	3,968
Fines and Penalties	1,196	1,196	1,069	(127)	999	70
Miscellaneous Charges	2,469	2,474	1,033	(1,441)	1,536	(503)
Charges to Other Municipalities	33,500	33,773	32,389	(1,384)	33,221	(832)
Licenses and Permits	3,040	3,040	3,796	756	3,842	(46)
Interest Income	450	450	20	(430)	270	(250)
Fleet Management - Sale of Vehicles & Equipment	150	150	67	(83)	83	(16)
Contributions from Sinking Fund Reserve	-	-	-	-	424	(424)
Reimbursement of Expenditures	420	420	1,954	1,534	217	1,737
Repair Loan Program	4,352	4,352	3,518	(834)	3,218	300
Other	900	900	1,505	605	4,720	(3,215)
Total Locally Generated Non-Tax Revenue	630,701	630,979	643,035	12,056	640,222	2,813
<b><u>Revenue from Other Governments</u></b>						
State	775	744	744	-	839	(95)
Federal	200	-	-	-	244	(244)
Total Revenue from Other Governments	975	744	744	-	1,083	(339)
<b><u>Revenue from Other Funds</u></b>						
	105,638	87,233	36,756	(50,477)	35,541	1,215
Total Revenues	737,314	718,956	680,535	(38,421)	676,846	3,689
<b><u>Obligations</u></b>						
Mayor's Office of Information Services	22,997	22,997	16,222	6,775	17,069	(847)
Public Property	4,043	4,043	4,043	-	3,960	83
Office of Fleet Management	8,733	8,733	7,871	862	8,323	(452)
Water Department	367,167	372,607	333,347	39,260	347,882	(14,535)
Office of the Director of Finance	-	-	-	-	-	-
City-Wide Appropriation Under the Director of Finance:						
Pension Contributions	57,800	59,122	59,115	7	52,277	6,838
Other Employee Benefits	53,115	51,793	47,276	4,517	48,293	(1,017)
Contributions, Indemnities and Taxes	6,500	1,060	-	1,060	-	-
Advances, Subsidies, Miscellaneous	-	-	-	-	-	-
Department of Revenue	16,269	16,269	15,020	1,249	14,888	132
Sinking Fund Commission	227,139	227,139	219,133	8,006	200,799	18,334
Procurement Department	77	77	77	-	61	16
Law	3,241	3,241	2,287	954	2,455	(168)
Mayor's Office of Transportation	139	139	138	1	228	(90)
Mayor's Office of Sustainability	94	94	94	-	-	94
Total Obligations	767,314	767,314	704,623	62,691	696,235	8,388
Operating Surplus (Deficit) for the Year	(30,000)	(48,358)	(24,088)	24,270	(19,389)	(4,699)

City of Philadelphia  
Schedule of Budgetary Actual and Estimated Revenues and Obligations  
Aviation Operating Fund

Schedule XXI

Amounts in thousands of USD

For the Fiscal Year Ended June 30, 2016 (with comparative actual amounts for the Fiscal Year Ended June 30, 2015)

	Budgeted Amounts			Final Budget to Actual		
	Original	Final	FY 2016 Actual	Positive (Negative)	FY 2015 Actual	Increase (Decrease)
<b><u>Revenue</u></b>						
<b><u>Locally Generated Non-Tax Revenue</u></b>						
Concessions	40,000	40,000	47,060	7,060	38,806	8,254
Space Rentals	164,771	143,771	134,797	(8,974)	118,268	16,529
Landing Fees	77,000	89,900	87,170	(2,730)	79,577	7,593
Parking	27,000	27,000	29,963	2,963	29,098	865
Car Rentals	24,000	20,365	18,766	(1,599)	18,036	730
Payment in Aid - Terminal Building	-	-	-	-	-	-
Interest Earnings	1,000	250	566	316	256	310
Sale of Utilities	5,000	4,000	3,177	(823)	3,849	(672)
Passenger Facility Charge	33,000	33,000	31,176	(1,824)	31,169	7
Overseas Terminal Facility Charges	-	-	8	8	5	3
International Terminal Charge	35,000	36,625	34,171	(2,454)	28,762	5,409
Other	22,045	16,045	4,806	(11,239)	13,081	(8,275)
Total Locally Generated Non-Tax Revenue	428,816	410,956	391,660	(19,296)	360,907	30,753
<b><u>Revenue from Other Governments</u></b>						
State	250	250	-	(250)	74	(74)
Federal	4,250	4,250	2,137	(2,113)	1,571	566
Total Revenue from Other Governments	4,500	4,500	2,137	(2,363)	1,645	492
<b><u>Revenue from Other Funds</u></b>						
	2,500	2,500	1,158	(1,342)	6,199	(5,041)
Total Revenue	435,816	417,956	394,955	(23,001)	368,751	26,204
<b><u>Obligations</u></b>						
Mayor's Office of Information Services	9,620	9,620	6,750	2,870	7,121	(371)
Managing Director	-	-	-	-	-	-
Police	15,783	15,783	15,375	408	15,208	167
Fire	6,726	6,726	5,989	737	6,808	(819)
Public Property	26,900	26,900	22,950	3,950	23,801	(851)
Office of Fleet Management	8,245	8,245	4,062	4,183	4,412	(350)
Director of Finance	-	-	-	-	-	-
City-Wide Appropriation Under the Director of Finance:						
Pension Contributions	31,300	33,535	33,515	20	29,813	3,702
Other Employee Benefits	25,894	23,659	19,476	4,183	21,738	(2,262)
Purchase of Services	4,146	4,146	2,447	1,699	2,511	(64)
Contributions, Indemnities and Taxes	2,512	1,195	-	1,195	-	-
Advances, Subsidies, Miscellaneous	-	-	-	-	-	-
Sinking Fund Commission	123,505	123,505	117,272	6,233	128,048	(10,776)
Procurement	-	-	-	-	-	-
Commerce	183,446	184,763	133,597	51,166	129,529	4,068
Law	2,021	2,021	1,455	566	1,758	(303)
Mayor's Office of Transportation	191	191	111	80	196	(85)
Mayor's Office of Sustainability	94	94	94	-	-	94
Total Obligations	440,383	440,383	363,093	77,290	370,943	(7,850)
Operating Surplus (Deficit) for the Year	(4,567)	(22,427)	31,862	54,289	(2,192)	34,054



## Statistical Section

### Financial Trends

*These tables contain trend information to help the reader understand how the City's financial performance and well-being have changed over time.*

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### Revenue Capacity

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### Debt Capacity

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**City of Philadelphia**  
**Net Position by Component**  
**For the Fiscal Years 2006 Through 2016**

**Table 1**

*Amounts in millions of USD*

*(full accrual basis of accounting)*

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
<b><u>Governmental Activities</u></b>										
Net Investment in Capital Assets	161.4	206.4	(5.8)	(59.3)	(47.5)	83.9	232.5	176.8	1,040.8	955.2
Restricted	689.7	641.0	833.8	705.1	789.5	621.8	586.8	630.3	576.5	625.1
Unrestricted	<u>(1,220.5)</u>	<u>(1,567.1)</u>	<u>(2,120.6)</u>	<u>(2,421.9)</u>	<u>(2,495.5)</u>	<u>(2,478.2)</u>	<u>(2,588.9)</u>	<u>(2,771.8)</u>	<u>(7,880.6)</u>	<u>(7,904.4)</u>
Total Governmental Activities Net Position	<u>(369.4)</u>	<u>(719.7)</u>	<u>(1,292.6)</u>	<u>(1,776.1)</u>	<u>(1,753.5)</u>	<u>(1,772.5)</u>	<u>(1,769.6)</u>	<u>(1,964.7)</u>	<u>(6,263.3)</u>	<u>(6,324.1)</u>
<b><u>Business-Type Activities</u></b>										
Net Investment in Capital Assets	544.0	591.8	750.6	831.8	845.1	887.8	982.5	1,007.4	1,088.1	1,323.7
Restricted	635.1	644.1	511.2	489.3	550.6	591.8	628.9	685.5	766.0	650.5
Unrestricted	<u>257.3</u>	<u>266.2</u>	<u>269.8</u>	<u>257.3</u>	<u>234.3</u>	<u>257.9</u>	<u>173.4</u>	<u>200.7</u>	<u>(278.5)</u>	<u>(279.3)</u>
Total Business-Type Activities Net Position	<u>1,436.4</u>	<u>1,502.1</u>	<u>1,531.6</u>	<u>1,578.4</u>	<u>1,630.0</u>	<u>1,737.5</u>	<u>1,784.8</u>	<u>1,893.6</u>	<u>1,575.6</u>	<u>1,694.9</u>
<b><u>Primary Government</u></b>										
Net Investment in Capital Assets	705.4	798.2	744.8	772.5	797.6	971.7	1,215.0	1,184.2	2,128.9	2,278.9
Restricted	1,324.8	1,285.1	1,345.0	1,194.4	1,340.1	1,213.6	1,215.7	1,315.8	1,342.5	1,275.6
Unrestricted	<u>(963.2)</u>	<u>(1,300.9)</u>	<u>(1,850.8)</u>	<u>(2,164.6)</u>	<u>(2,261.2)</u>	<u>(2,220.3)</u>	<u>(2,415.5)</u>	<u>(2,571.1)</u>	<u>(8,159.1)</u>	<u>(8,183.7)</u>
Total Primary Government Net Position	<u>1,067.0</u>	<u>782.4</u>	<u>239.0</u>	<u>(197.7)</u>	<u>(123.5)</u>	<u>(35.0)</u>	<u>15.2</u>	<u>(71.1)</u>	<u>(4,687.7)</u>	<u>(4,629.2)</u>



City of Philadelphia  
Changes in Net Positions  
For the Fiscal Years 2007 Through 2016

Table 2  
Amounts in millions of USD

(full accrual basis of accounting)

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Expenses</b>										
Governmental Activities:										
Economic Development	92.6	116.4	116.0	145.0	92.2	96.5	94.2	95.1	97.4	115.3
Transportation:										
Streets & Highways	116.6	117.7	119.1	129.4	136.3	115.6	112.9	143.9	122.4	136.8
Mass Transit	85.1	88.3	90.5	82.7	75.2	74.0	71.0	72.1	76.2	76.1
Judiciary and Law Enforcement:										
Police	921.4	1,002.9	985.6	990.5	1,048.1	1,094.2	1,087.9	1,262.7	1,098.7	1,232.4
Prisons	293.2	311.4	339.1	343.8	340.4	336.7	342.2	371.2	353.0	381.6
Courts	304.1	321.6	318.7	312.0	315.0	326.2	318.1	338.5	323.4	339.6
Conservation of Health:										
Emergency Medical Services	36.0	37.2	36.9	47.8	53.3	48.4	49.7	69.3	66.4	66.3
Health Services	1,442.6	1,572.6	1,701.5	1,446.7	1,524.6	1,500.1	1,464.9	1,519.1	1,420.5	1,579.1
Housing and Neighborhood Development	111.2	142.1	149.1	131.3	126.1	137.7	102.9	80.3	80.9	80.1
Cultural and Recreational										
Recreation	73.4	86.2	77.3	77.0	98.7	97.3	102.3	113.1	113.1	116.6
Parks	32.6	36.6	37.7	37.9	14.0	9.0	8.6	8.2	10.6	8.4
Libraries and Museums	90.3	87.0	92.8	79.0	75.7	80.8	76.1	84.5	84.3	88.8
Improvements to General Welfare:										
Social Services	765.5	794.1	756.3	718.8	718.4	675.5	625.3	657.5	687.8	688.7
Education	64.0	65.5	67.2	65.4	64.0	74.3	94.4	167.5	126.0	134.5
Inspections and Demolitions	64.3	47.3	27.8	23.4	30.1	26.5	38.0	43.3	41.7	65.3
Service to Property:										
Sanitation	134.4	138.0	137.8	142.7	143.0	153.2	136.7	153.1	151.1	157.0
Fire	285.3	284.8	278.6	266.0	285.9	292.2	296.8	386.6	350.8	370.7
General Management and Support	568.7	636.9	684.1	683.3	561.0	678.4	743.4	538.0	605.3	648.1
Interest on Long Term Debt	149.5	95.1	214.6	174.9	136.3	112.1	161.8	159.0	166.2	158.2
Total Governmental Activities Expenses	5,630.8	5,981.7	6,230.7	5,897.6	5,838.3	5,928.7	5,927.2	6,263.0	5,975.8	6,443.6
Business-Type Activities:										
Water and Sewer	476.2	504.3	530.8	502.5	520.2	490.8	513.4	543.5	550.2	569.0
Aviation	314.3	323.1	326.2	330.1	336.0	343.1	358.9	376.5	374.3	400.2
Industrial and Commercial Development	3.7	2.1	3.0	0.1	1.9	-	0.6	-	-	-
Total Business-Type Activities Expenses	794.2	829.5	860.0	832.7	858.1	833.9	872.9	920.0	924.5	969.2
Total Primary Government Expenses	6,425.0	6,811.2	7,090.7	6,730.3	6,696.4	6,762.6	6,800.1	7,183.0	6,900.3	7,412.8
<b>Program Revenues</b>										
Governmental Activities:										
<b>Charges for Services:</b>										
Economic Development	-	-	0.3	0.1	-	1.1	2.6	0.1	0.1	0.1
Transportation:										
Streets & Highways	3.5	3.9	2.8	4.4	5.1	5.2	5.3	5.2	7.3	5.8
Mass Transit	0.6	0.5	0.4	0.5	0.6	1.3	1.9	1.9	2.1	2.2
Judiciary and Law Enforcement:										
Police	1.7	4.3	5.0	3.3	3.5	5.5	6.3	4.5	5.2	5.1
Prisons	0.3	0.3	0.4	0.5	0.5	0.9	0.7	0.4	0.4	0.3
Courts	51.5	52.7	51.8	53.4	45.6	60.6	59.9	50.3	51.6	50.3
Conservation of Health:										
Emergency Medical Services	27.7	27.6	37.5	36.8	34.7	27.5	33.3	36.3	36.2	45.7
Health Services	12.6	15.3	14.4	16.2	16.7	14.8	16.7	18.9	14.4	14.1
Housing and Neighborhood Development	45.2	25.2	31.3	20.8	23.1	28.6	23.5	16.7	20.1	18.1
Cultural and Recreational:										
Recreation	0.2	0.3	3.2	(0.1)	2.8	2.2	3.8	2.8	3.7	4.6
Parks	0.5	1.5	0.6	0.9	5.0	4.8	3.3	2.2	1.1	1.0
Libraries and Museums	0.9	0.8	1.3	0.9	1.8	1.2	1.0	2.0	1.1	1.2

City of Philadelphia  
Changes in Net Positions  
For the Fiscal Years 2007 Through 2016

Table 2  
Amounts in millions of USD

(full accrual basis of accounting)

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Improvements to General Welfare:										
Social Services	7.3	6.4	7.6	14.4	6.8	5.2	8.3	5.6	4.4	1.2
Education	-	-	1.1	-	-	-	0.1	-	-	-
Inspections and Demolitions	44.4	44.9	40.3	43.9	45.5	50.0	53.9	50.1	52.4	54.1
Service to Property:										
Sanitation	-	3.1	2.9	2.0	11.6	15.9	16.2	35.5	24.9	16.5
Fire	0.7	0.2	0.7	0.3	0.5	0.3	0.9	0.3	2.9	0.3
General Management and Support	107.5	110.6	131.9	127.9	136.6	139.7	134.2	177.7	150.2	158.3
Interest on Long Term Debt	-	-	-	-	9.2	0.3	-	0.2	0.2	0.2
Operating Grants and Contributions	2,204.9	2,339.9	2,438.1	2,050.4	2,223.5	2,102.1	1,986.4	1,967.3	2,011.2	2,090.9
Capital Grants and Contributions	15.8	10.0	35.0	46.9	32.1	43.2	48.9	35.3	60.1	61.8
Total Governmental Activities Program Revenues	2,525.3	2,647.5	2,806.6	2,423.5	2,605.2	2,510.4	2,407.2	2,413.3	2,449.6	2,531.8
Business-Type Activities:										
<b>Charges for Services:</b>										
Water and Sewer	493.6	503.3	499.7	552.4	558.5	598.3	608.7	638.6	675.9	670.0
Aviation	309.2	303.2	251.7	240.0	258.1	263.2	291.4	315.4	322.4	433.7
Industrial and Commercial Development	1.5	1.5	0.5	0.3	0.5	0.4	0.4	0.4	0.5	0.5
Operating Grants and Contributions	2.8	5.4	2.6	6.1	4.8	3.5	2.3	1.4	0.9	0.9
Capital Grants and Contributions	22.4	36.6	109.4	90.5	105.9	91.6	58.2	93.6	161.3	26.8
Total Business-Type Activities Program Revenues	829.5	850.0	863.9	889.3	927.8	957.0	961.0	1,049.4	1,161.0	1,131.9
Total Primary Government Revenues	3,354.8	3,497.5	3,670.5	3,312.8	3,533.0	3,467.4	3,368.2	3,462.7	3,610.6	3,663.7
Net (Expense)/Revenue										
Governmental Activities	(3,105.5)	(3,334.2)	(3,424.1)	(3,474.1)	(3,233.1)	(3,418.3)	(3,520.0)	(3,849.7)	(3,526.2)	(3,911.8)
Business-Type Activities	35.3	20.5	3.9	56.6	69.7	123.1	88.1	129.4	236.5	162.7
Total Primary Government Net Expense	(3,070.2)	(3,313.7)	(3,420.2)	(3,417.5)	(3,163.4)	(3,295.2)	(3,431.9)	(3,720.3)	(3,289.7)	(3,749.1)
<b>General Revenues and Other Changes in Net Position</b>										
Governmental Activities:										
Taxes:										
Property Taxes	399.2	401.3	409.2	400.8	506.6	500.8	553.8	530.2	551.3	550.2
Wage & Earnings Taxes	1,498.5	1,524.5	1,465.5	1,448.5	1,504.6	1,551.7	1,598.7	1,639.8	1,737.2	1,816.8
Business Taxes	453.7	414.5	407.6	385.2	364.2	399.2	452.4	469.2	453.4	505.6
Other Taxes	460.3	457.0	435.0	578.3	645.8	663.6	706.0	735.8	666.7	733.5
Unrestricted Grants & Contributions	104.1	104.7	107.8	171.4	173.8	223.2	187.4	229.5	185.1	185.4
Interest & Investment Earnings	81.8	65.3	46.1	25.5	35.8	33.3	17.9	21.7	24.1	28.0
Special Items	-	-	-	-	-	-	-	-	-	-
Transfers	4.9	4.9	4.2	28.3	24.9	27.5	21.4	28.3	30.2	31.6
Total Governmental Activities	3,002.5	2,972.2	2,875.4	3,038.0	3,255.7	3,399.3	3,537.6	3,654.5	3,648.0	3,851.1
Business-Type Activities:										
Interest & Investment Earnings	45.7	48.7	22.9	7.7	6.9	9.0	12.7	5.3	4.1	8.3
Unrestricted Grants & Contributions	-	-	-	-	-	2.9	42.2	2.5	1.9	1.9
Transfers	(4.9)	(4.9)	(4.2)	(28.3)	(24.9)	(27.5)	(21.4)	(28.3)	(30.3)	(31.6)
Total Business-Type Activities	40.8	43.8	18.7	(20.6)	(18.0)	(15.6)	33.5	(20.5)	(24.3)	(21.4)
Total Primary Government	3,043.3	3,016.0	2,894.1	3,017.4	3,237.7	3,383.7	3,571.1	3,634.0	3,623.7	3,829.7
<b>Change in Net Position</b>										
Governmental Activities	(103.0)	(362.0)	(548.7)	(436.1)	22.6	(19.0)	17.6	(195.2)	121.8	(60.7)
Business-Type Activities	76.1	64.3	22.6	36.0	51.7	107.5	121.6	108.9	212.2	141.3
Total Primary Government	(26.9)	(297.7)	(526.1)	(400.1)	74.3	88.5	139.2	(86.3)	334.0	80.6

**City of Philadelphia  
Fund Balances  
Governmental Funds  
For the Fiscal Years 2007 Through 2016**

**Table 3**

*Amounts in millions of USD*

*(modified accrual basis of accounting)*

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>General Fund</b>										
Non-spendable:	-	-	-	-	-	-	-	-	-	-
Restricted for:										
Central Library Project	4.8	4.9	4.7	2.3	2.3	2.3	2.3	2.0	2.0	1.7
Stadium Financing	6.4	0.1	1.7	0.6	0.3	0.5	2.1	3.8	4.3	0.6
Cultural & Commercial Corridor Project	143.3	122.5	89.8	30.8	19.2	15.3	12.2	11.6	10.6	7.4
Long Term Loan	45.0	22.5	-	-	-	-	79.7	68.2	56.7	44.8
Committed to:										
Encumbrances	135.6	108.8	102.8	-	-	-	-	-	-	-
General Fund	-	-	-	87.9	-	-	-	-	-	-
Assigned to:	-	-	-	-	-	70.5	98.0	103.1	81.9	78.0
Unassigned:	152.7	(24.3)	(274.6)	(251.8)	(45.7)	-	90.0	23.0	-	-
<b>Total General Fund:</b>	<b>487.8</b>	<b>234.4</b>	<b>(75.6)</b>	<b>(130.2)</b>	<b>(23.9)</b>	<b>88.6</b>	<b>284.4</b>	<b>211.7</b>	<b>155.5</b>	<b>132.5</b>
<b>All Other Governmental Funds</b>										
Non-spendable:										
Permanent Fund (Principal)	-	-	-	-	2.6	2.6	2.8	3.2	3.5	3.1
Restricted for:										
Behavioral Health	192.9	177.8	188.7	171.0	250.1	230.7	233.7	188.6	199.6	220.1
Neighborhood Revitalization	99.9	77.8	74.6	73.1	61.3	51.6	34.2	30.6	29.6	0.0
Public Safety Emergency Phone System	21.7	28.7	38.8	40.4	36.9	29.6	24.5	27.5	35.2	40.8
Economic Development	-	-	-	-	6.6	10.3	7.2	6.8	11.8	12.3
Intergovernmental Financing	24.5	18.6	12.1	7.9	21.1	21.7	33.9	34.0	28.3	25.5
Intergovernmentally Financed Pgms	-	-	-	-	24.5	18.9	-	-	-	-
Streets & Highways	7.5	12.8	16.8	16.8	18.3	23.2	23.9	26.2	31.9	37.1
Housing & Neighborhood Development	-	-	-	-	10.5	10.5	15.0	16.6	18.5	20.8
Health Services	-	-	4.0	10.8	8.8	9.5	15.2	10.1	11.0	11.2
Debt Service	92.3	80.9	79.1	76.6	82.8	82.4	81.5	83.1	81.5	81.6
Capital Improvements	103.0	21.0	196.1	152.2	267.7	128.5	29.2	191.6	70.2	133.1
Trust Purposes	8.9	8.3	6.4	4.7	8.1	8.3	8.9	11.8	12.3	10.2
Parks & Recreation	-	-	-	-	0.3	0.4	0.4	0.4	0.6	0.8
Libraries & Museums	-	-	-	-	0.1	0.1	0.1	0.1	0.0	3.0
Stadium Financing	-	-	-	-	6.3	6.4	6.8	7.3	6.7	6.4
Committed to:										
Capital Improvements	56.7	61.7	62.5	37.9	-	-	-	-	-	-
Economic Development	-	-	-	6.5	-	-	-	-	-	-
Housing & Neighborhood Development	15.9	17.4	18.6	15.2	-	-	-	-	-	-
Debt Service	5.2	5.7	5.6	7.9	-	-	-	-	-	-
Trust Purposes	9.2	9.1	8.0	7.7	-	-	-	-	-	-
Intergovernmental Financing	53.3	52.2	62.6	36.2	-	-	-	-	-	-
Social Services	-	-	-	-	-	-	-	-	-	-
Prisons	-	-	-	-	3.6	4.2	4.4	3.5	3.2	2.9
Parks & Recreation	-	-	-	-	0.5	0.9	0.7	0.8	0.9	1.7
Assigned to:										
Behavioral Health	28.4	40.5	-	42.5	-	-	-	-	-	-
PICA Rebate Fund	7.0	7.4	8.0	7.5	-	-	-	-	-	-
PMA	0.2	0.2	0.2	0.2	-	-	-	-	-	-
Unassigned:										
Community Behavioral Health	-	-	(5.4)	-	-	-	-	-	-	-
Housing & Neighborhood Dev	(3.9)	(3.2)	(5.0)	(4.0)	(4.0)	(6.5)	(7.2)	(7.9)	(7.1)	(5.3)
Parks & Recreation	-	-	-	-	-	-	-	-	(0.1)	-
Grants Revenue Fund	(26.2)	(23.0)	(36.7)	(39.0)	(34.3)	(175.1)	(217.1)	(273.3)	(213.0)	(322.5)
Capital Improvement	-	-	-	-	-	-	-	-	-	-
<b>Total All Other Governmental Funds</b>	<b>696.3</b>	<b>594.2</b>	<b>734.9</b>	<b>672.1</b>	<b>771.7</b>	<b>458.1</b>	<b>298.1</b>	<b>360.7</b>	<b>324.7</b>	<b>282.7</b>

<sup>1</sup> Effective April 15, 2003, the City implemented a change to the basis on which the Business Privilege Tax is collected requiring an estimated payment applicable to the next year's tax liability.  
A portion of these estimated tax payments are deferred in the general fund beginning in FY2003 because the underlying events had not occurred.

**City of Philadelphia**  
**Changes in Fund Balances**  
**Governmental Funds**  
**For the Fiscal Years 2007 Through 2016**

**Table 4**

*Amounts in millions of USD*

*(modified accrual basis of accounting)*

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Revenues</b>										
Tax Revenue	2,805.1	2,781.8	2,705.2	2,812.3	2,995.0	3,112.5	3,304.4	3,370.8	3,397.1	3,632.7
Locally Generated Non-Tax Revenue	381.7	349.7	349.3	302.7	370.6	336.5	348.6	387.1	376.6	367.3
Revenue from Other Governments	2,376.6	2,468.4	2,564.9	2,323.4	2,366.4	2,226.1	2,212.0	2,169.0	2,280.2	2,245.2
Other Revenues	17.1	17.9	49.6	33.1	25.8	27.5	27.9	20.2	16.9	19.6
Total Revenues	5,580.5	5,617.8	5,669.0	5,471.5	5,757.8	5,702.6	5,892.9	5,947.1	6,070.8	6,264.8
<b>Expenditures</b>										
Current Operating:										
Economic Development	85.5	112.3	107.0	135.1	82.6	88.9	85.9	83.7	82.5	101.1
Transportation:										
Streets & Highways	89.2	89.7	89.9	91.1	87.4	75.6	81.6	98.1	96.2	105.1
Mass Transit	58.1	61.7	63.7	65.2	67.1	67.7	66.5	67.5	71.7	76.1
Judiciary and Law Enforcement:										
Police	860.2	951.9	933.9	882.7	955.9	1,020.0	1,089.4	1,164.9	1,104.6	1,162.5
Prisons	278.1	298.2	326.9	315.2	315.9	318.2	338.7	346.3	343.9	365.1
Courts	292.3	311.1	310.5	288.1	294.9	312.3	309.2	317.9	321.5	329.9
Conservation of Health:										
Emergency Medical Services	34.9	36.0	36.2	45.0	50.7	46.7	50.0	65.8	66.1	64.9
Health Services	1,436.8	1,567.6	1,695.0	1,436.5	1,514.8	1,492.7	1,464.6	1,510.3	1,419.8	1,573.1
Housing and Neighborhood Development	109.2	141.9	148.4	131.2	126.1	133.8	102.8	80.3	80.9	80.1
Cultural and Recreational:										
Recreation	62.2	74.3	65.1	58.4	82.9	85.9	90.3	98.6	103.9	104.8
Parks	26.3	28.9	31.8	26.9	5.8	6.1	3.9	1.2	1.8	1.5
Libraries and Museums	83.2	84.2	81.0	68.8	68.7	71.9	72.0	74.9	79.1	81.4
Improvements to General Welfare:										
Social Services	756.7	778.2	743.1	699.7	701.8	674.3	624.3	655.3	687.8	687.1
Education	64.0	65.5	67.2	65.4	64.0	74.3	94.4	167.5	126.0	134.5
Inspections and Demolitions	63.0	46.3	33.1	27.3	34.8	32.2	45.8	40.8	41.5	64.0
Service to Property:										
Sanitation	129.5	132.9	134.6	130.6	133.9	146.2	137.2	144.8	146.9	152.4
Fire	267.6	276.4	266.9	237.6	258.1	267.8	295.9	344.2	346.4	355.0
General Management and Support	563.7	618.4	693.8	615.0	568.5	619.1	622.8	646.7	662.3	686.4
Capital Outlay	92.3	105.8	126.9	148.9	134.9	202.0	161.1	140.1	189.7	206.1
Debt Service:										
Principal	91.5	94.1	87.6	89.7	91.4	103.2	114.1	120.3	339.8	139.5
Interest	103.4	100.0	105.7	96.7	105.6	105.2	112.2	118.0	120.7	107.5
Bond Issuance Cost	5.0	24.2	8.5	23.5	2.2	1.6	4.4	5.0	7.2	3.3
Capital Lease Principal	-	-	-	-	-	-	-	-	-	-
Capital Lease Interest	-	-	-	-	-	-	-	-	-	-
Total Expenditures	5,552.7	5,999.6	6,156.8	5,678.6	5,748.0	5,945.7	5,967.1	6,292.2	6,440.3	6,581.4
Excess of Revenues Over (Under) Expenditures	27.8	(381.8)	(487.8)	(207.1)	9.8	(243.1)	(74.2)	(345.1)	(369.5)	(316.6)
<b>Other Financing Sources (Uses)</b>										
Issuance of Debt	353.1	1,303.8	262.9	207.0	139.1	12.6	299.8	293.8	30.0	191.6
Issuance of Refunding Debt	-	-	354.9	337.0	114.6	112.6	231.2	363.6	195.7	234.2
Bond Issuance Premium	13.8	31.1	26.7	24.3	5.0	16.6	0.8	31.4	21.3	53.9
Proceeds from Lease & Service Agreements	-	-	(3.1)	(1.0)	28.1	-	(252.7)	-	-	-
Payment to Refunded Bonds Escrow Agent	-	(1,313.7)	(326.9)	(504.0)	(117.6)	(127.3)	(190.5)	(382.2)	-	(259.6)
Transfers In	460.1	465.2	574.5	558.1	583.1	600.8	613.1	616.3	661.9	686.3
Transfers Out	(455.1)	(460.2)	(570.3)	(529.7)	(558.1)	(573.3)	(591.7)	(587.9)	(631.6)	(654.7)
Total Other Financing Sources (Uses)	371.9	26.2	318.7	91.7	194.2	42.0	110.0	335.0	277.3	251.7
Net Change in Fund Balances	399.7	(355.6)	(169.1)	(115.4)	204.0	(201.1)	35.8	(10.1)	(92.2)	(64.9)
Debt Service as a Percentage of Non-capital Expenditures	3.6%	3.3%	3.2%	3.4%	3.5%	3.6%	3.9%	3.9%	7.4%	3.9%

<sup>1.0</sup> Effective April 15, 2003, the City implemented a change to the basis on which the Business Income and Receipts Tax is collected requiring an estimated payment applicable to the next year's tax liability. \$166.9 million of these estimated tax payments were deferred in the general fund in FY2013 because the underlying events had not occurred.

**City of Philadelphia**  
**Comparative Schedule of Operations**  
**Municipal Pension Fund**  
**For the Fiscal Years 2007 through 2016**

**Table 5**

*Amounts in millions of USD*

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
Additions:										
Contributions:										
Employee Contributions	<u>49.2</u>	<u>51.7</u>	<u>54.0</u>	<u>51.6</u>	<u>52.7</u>	<u>50.0</u>	<u>49.6</u>	<u>53.7</u>	<u>58.7</u>	<u>67.1</u>
Employer's:										
City of Philadelphia	<u>419.2</u>	<u>412.4</u>	<u>440.0</u>	<u>297.4</u>	<u>455.8</u>	<u>539.8</u>	<u>763.7</u>	<u>533.4</u>	<u>556.1</u>	<u>629.4</u>
Quasi-Governmental Agencies	<u>13.1</u>	<u>14.5</u>	<u>15.4</u>	<u>15.1</u>	<u>14.2</u>	<u>16.2</u>	<u>18.1</u>	<u>19.8</u>	<u>21.1</u>	<u>30.8</u>
<u>Total Employer's Contributions</u>	<u>432.3</u>	<u>426.9</u>	<u>455.4</u>	<u>312.5</u>	<u>470.1</u>	<u>556.0</u>	<u>781.8</u>	<u>553.2</u>	<u>577.2</u>	<u>660.2</u>
<u>Total Contributions</u>	<u>481.5</u>	<u>478.6</u>	<u>509.4</u>	<u>364.1</u>	<u>522.8</u>	<u>606.0</u>	<u>831.4</u>	<u>606.9</u>	<u>635.9</u>	<u>727.3</u>
Interest & Dividends	80.3	97.1	75.6	70.5	79.5	86.2	122.9	102.2	98.4	101.5
Net Gain (Decline) in Fair Value of Investments	684.7	(322.0)	(945.6)	381.2	618.5	(57.7)	213.9	585.4	(76.8)	(239.8)
(Less) Investment Expenses	0.0	0.0	0.0	0.0	0.0	(13.3)	(12.2)	(10.2)	(9.8)	(9.1)
Net Securities Lending Revenue	1.1	7.4	5.7	1.9	1.5	2.1	3.0	4.2	2.2	1.9
Securities Lending Unrealized Loss	0.0	0.0	0.0	0.0	0.0	(1.9)	118.0	0.0	0.0	0.0
(Less) Securities Lending Expenses	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>(0.9)</u>	<u>(0.3)</u>	<u>(0.6)</u>	<u>(0.3)</u>	<u>(0.3)</u>
Net Investment Income (Loss)	766.1	(217.5)	(864.3)	453.6	699.5	14.5	445.3	681.0	13.7	(145.8)
Miscellaneous Operating Revenue	<u>2.1</u>	<u>1.1</u>	<u>1.0</u>	<u>0.7</u>	<u>1.4</u>	<u>0.0</u>	<u>0.5</u>	<u>0.5</u>	<u>0.1</u>	<u>0.1</u>
<u>Total Additions</u>	<u>1,249.7</u>	<u>262.2</u>	<u>(353.9)</u>	<u>818.4</u>	<u>1,223.7</u>	<u>620.5</u>	<u>1,277.2</u>	<u>1,288.4</u>	<u>649.7</u>	<u>581.6</u>
Deductions:										
Pension Benefits	655.8	725.7	681.1	680.1	681.9	706.2	740.7	802.6	876.4	882.0
Refunds to Members	4.5	4.2	4.8	4.5	5.1	6.5	5.7	6.0	5.3	7.4
Administrative Costs	6.7	7.6	8.4	8.1	8.0	0.0	8.2	8.3	10.4	8.4
Other Operating Expenses	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>15.2</u>	<u>0.2</u>	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>
<u>Total Deductions</u>	<u>667.0</u>	<u>737.5</u>	<u>694.3</u>	<u>692.7</u>	<u>695.0</u>	<u>727.9</u>	<u>754.8</u>	<u>816.9</u>	<u>892.1</u>	<u>897.9</u>
Net Increase (Decrease)	<u>582.7</u>	<u>(475.3)</u>	<u>(1,048.2)</u>	<u>125.7</u>	<u>528.7</u>	<u>(107.4)</u>	<u>522.4</u>	<u>471.5</u>	<u>(242.4)</u>	<u>(316.3)</u>
Net Assets: Adjusted Opening	4,316.6	4,899.3	4,424.0	3,375.9	3,501.6	4,030.2	3,922.8	4,445.2	4,916.7	4,674.3
Closing	<u>4,899.3</u>	<u>4,424.0</u>	<u>3,375.9</u>	<u>3,501.6</u>	<u>4,030.2</u>	<u>3,922.8</u>	<u>4,445.2</u>	<u>4,916.7</u>	<u>4,674.3</u>	<u>4,358.0</u>
<u>Ratios:</u>										
Pension Benefits Paid as a Percent of:										
Net Members Contributions	1467.11%	1527.79%	1383.30%	1443.95%	1432.56%	1623.45%	1687.24%	1682.60%	1640.28%	1477.39%
Closing Net Assets	13.39%	16.40%	20.18%	19.42%	16.92%	18.00%	16.66%	16.32%	18.75%	20.24%
Coverage of Additions over Deductions	187.36%	35.55%	-50.97%	118.15%	176.07%	85.25%	169.21%	157.72%	72.83%	64.77%
Investment Earnings as % of Pension Benefits	116.82%	-29.97%	-126.90%	66.70%	102.58%	2.05%	60.12%	84.85%	1.56%	-16.53%

**City of Philadelphia**  
**Wage and Earnings Tax Taxable Income**  
**For the Calendar Years 2006 Through 2015**

**Table 6**

*Amounts in millions of USD*

Year	City Residents			Non-City Residents			Total Taxable Income	Total Direct Rate
	Taxable Income	% of Total	Direct Rate <sup>1</sup>	Taxable Income	% of Total	Direct Rate <sup>1</sup>		
2006	20,194.0	57.85%	4.30100%	14,715.3	42.15%	3.77160%	34,909.3	4.07784%
2007	21,051.3	57.33%	4.26000%	15,670.2	42.67%	3.75570%	36,721.5	4.04480%
2008	22,013.7	57.19%	4.09950%	16,479.4	42.81%	3.63170%	38,493.1	3.89923%
2009	21,805.5	57.38%	3.92980%	16,197.3	42.62%	3.49985%	38,002.8	3.74655%
2010	22,170.8	57.02%	3.92880%	16,713.5	42.98%	3.49910%	38,884.3	3.74410%
2011	22,726.3	57.06%	3.92800%	17,102.2	42.94%	3.49850%	39,828.5	3.74357%
2012	23,461.6	57.26%	3.92800%	17,513.6	42.74%	3.49850%	40,975.2	3.74442%
2013	24,346.9	57.57%	3.92600%	17,944.9	42.43%	3.49675%	42,291.8	3.74386%
2014	25,599.6	57.70%	3.92200%	18,770.1	42.30%	3.49325%	44,369.7	3.74062%
2015	26,851.8 <sup>2</sup>	58.05%	3.91510%	19,405.6 <sup>2</sup>	41.95%	3.48715%	46,257.4	3.73557%

**Note:**

The Wage and Earnings Tax is a tax on salaries, wages and commissions and other compensation paid to an employee who is employed by or renders services to an employer. All Philadelphia residents owe this tax regardless of where they perform services. Non-residents who perform services in Philadelphia must also pay this tax.

<sup>1</sup> From 2008 to 2010, the rate changed on January 1st & July 1st. Also, in 2013 to 2015, the rate changed on July 1st. The direct rate is an average of the two rates involved during that calendar year.

<sup>2</sup> The amounts for Year 2015 are preliminary.

**City of Philadelphia**  
**Direct and Overlapping Tax Rates**  
**For the Ten Fiscal Years 2007 through 2016**

**Table 7**

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
<b><u>Tax Classification</u></b>										
<b>Wage and Earnings Tax:</b>										
<sup>a</sup> City Residents	4.2600% <sup>b</sup>	4.2190% <sup>b</sup>	3.9300% <sup>b</sup>	3.9296% <sup>b</sup>	3.9280% <sup>b</sup>	3.9280% <sup>b</sup>	3.9280% <sup>b</sup>	3.9240%	3.9200%	3.9102%
Non-City Residents	3.7557% <sup>b</sup>	3.7242% <sup>b</sup>	3.5000% <sup>b</sup>	3.4997% <sup>b</sup>	3.4985% <sup>b</sup>	3.4985% <sup>b</sup>	3.4985% <sup>b</sup>	3.4950%	3.4915%	3.4828%
Wage and Earnings Tax is a tax on salaries, wages and commissions and other compensation paid to an employee who is employed by or renders services to an employer All Philadelphia residents owe this tax regardless of where they perform services. Non-residents who perform services in Philadelphia must also pay this tax										
<b><sup>d</sup> Real Property: (% on Assessed Valuation)</b>										
City	3.474%	3.305%	3.305%	3.305%	4.123%	4.123%	4.462%	0.602%	0.602%	0.632%
School District of Philadelphia	4.790%	4.959%	4.959%	4.959%	4.959%	5.309%	5.309%	0.738%	0.738%	0.768%
Total Real Property Tax	8.264%	8.264%	8.264%	8.264%	9.082%	9.432%	9.771%	1.340%	1.340%	1.400%
<sup>e</sup> Assessment Ratio	29.22%	28.86%	28.46%	26.73%	28.05%	28.87%	28.68%	224.40%	213.95%	NA
Effective Tax Rate (Real Property Rate x Assessment Ratio)	2.415%	2.385%	2.352%	2.209%	2.548%	2.723%	2.802%	3.007%	2.867%	NA
The City and the School District impose a tax on all real estate in the City. Real Estate Tax bills are sent out in December and are due and payable March 31st without penalty or interest If you pay your bill on or before the last day of February, you receive a 1% discount.										
<b>Real Property Transfer Tax</b>										
City	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Commonwealth of Pennsylvania	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Total Real Property Transfer Tax	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Realty Transfer Tax is levied on the sale or transfer of real estate located in Philadelphia. The tax also applies to the sale or transfer of an interest in a corporation or partnership that owns real estate Certain long term leases are also subject to this tax.										
<b><sup>c</sup> Business Income and Receipts Taxes</b>										
(% on Gross Receipts)	0.1665%	0.1540%	0.1415%	0.1415%	0.1415%	0.1415%	0.1415%	0.1415%	0.1415%	0.1415%
<sup>f</sup> (% on Net Income)	6.5000%	6.5000%	6.4500%	6.4500%	6.4500%	6.4500%	6.4500%	6.4300%	6.4100%	6.3900%
Every individual, partnership, association and corporation engaged in a business, profession or other activity for profit within the City of Philadelphia must file a BIRT Return										
<b><sup>c</sup> Net Profits Tax:</b>										
<sup>a</sup> City Residents	4.2600%	3.9800%	3.9296%	3.9280%	3.9280%	3.9280%	3.9240%	3.9200%	3.9102%	3.9004%
Non-City Residents	3.7557%	3.5392%	3.4997%	3.4985%	3.4985%	3.4985%	3.4950%	3.4915%	3.4828%	3.4741%
Net Profits Tax is levied on the net profits from the operation of a trade, business, profession, enterprise or other activity conducted by individuals, partnerships, associations or estates and trusts.										

**City of Philadelphia**  
**Direct and Overlapping Tax Rates**  
**For the Ten Fiscal Years 2007 through 2016**

**Table 7**

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
<b><u>Tax Classification</u></b>										
<b>Sales Tax</b>										
City	1.0%	1.0%	1.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Commonwealth of Pennsylvania	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%
Total Sales Tax	7.0%	7.0%	7.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
<b>Amusement Tax</b>										
	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Imposed on the admission fee charged for attending any amusement in the City. Included are concerts, movies, athletic contests, night clubs and convention shows for which admission is charged										
<b>Parking Lot Tax</b>										
	15.0%	15.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	22.5%
Parking Tax is levied on the gross receipts from all financial transactions involving the parking or storing of automobiles or other motor vehicles in outdoor or indoor parking lots and garages in the City										
<b>Hotel Room Rental Tax</b>										
	6.0%	6.0%	6.0%	7.2%	8.2%	8.2%	8.2%	8.5%	8.5%	8.5%
<b>Rate of Tourism &amp; Marketing Tax</b>										
	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
	7.0%	7.0%	7.0%	8.2%	9.2%	9.2%	9.2%	9.5%	9.5%	9.5%
Imposed on the rental of a hotel room to accommodate paying guests. The term "hotel" includes an apartment, hotel, motel, inn, guest house, bed and breakfast or other building located within the City which is available to rent for overnight lodging or use of facility space to persons seeking temporary accommodations.										
<b>Vehicle Rental Tax</b>										
	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Imposed on any person acquiring the custody or possession of a rental vehicle in the City under a rental contract for money or other consideration										

<sup>a</sup> Pursuant to an agreement with the Pennsylvania Intergovernmental Cooperation Authority (PICA), PICA's share of the Wage, Earnings and Net Profits Tax is 1.5% of City residents portion only.

<sup>b</sup> Effective January 1 of the fiscal year cited, the previous fiscal year's rate was in effect from July 1 through December 31. For FY 2011, from July 1 through December 31, 2010 the rates were 3.928 % and 3.4985%.

<sup>c</sup> Rates apply to the tax year (previous calendar year) and the tax is due April 15th in the fiscal year cited.

<sup>d</sup> Rates apply to the tax year (current calendar year) and the tax is due March 31st in the fiscal year cited.

<sup>e</sup> The State Tax Equalization Board (STEB) annually determines a ratio of assessed valuation to true value for each municipality in the Commonwealth of Pennsylvania. The ratio is used for the purpose of equalizing certain state school aid distribution.

<sup>f</sup> 60% of the Net Income portion of the Business Income and Receipts Tax is allowed to be credited against the Net Profits Tax.



**City of Philadelphia**  
**Principal Wage and Earnings Tax Remitters <sup>1</sup>**  
**Current Calendar Year and Nine Years Ago**

**Table 8**

*Amounts in millions of USD*

Remittance Range	2015			2006		
	# of Remitters (Employers)	Total Amount Remitted	Percentage of Total Remitted	# of Remitters (Employers)	Total Amount Remitted	Percentage of Total Remitted
Greater than \$10 million	16	\$435.1	25.18%	14	\$329.8	23.16%
Between \$1 million & \$10 million	169	430.6	24.92%	153	366.8	25.76%
Between \$100,000 & \$1 million	1,824	478.3	27.68%	1,508	387.9	27.24%
Between \$10,000 & \$100,000	9,724	287.0	16.61%	8,620	254.9	17.90%
Less than \$10,000	41,573	97.0	5.61%	36,904	84.4	5.94%
Total	<u>53,306</u>	<u>\$1,728.0</u>	<u>100.00%</u>	<u>47,199</u>	<u>\$1,423.8</u>	<u>100.00%</u>

<sup>1</sup> Wage & Earnings information for individual remitters is confidential

**City of Philadelphia**  
**Assessed Value and Estimated Value of Taxable Property**  
**For the Calendar Years 2007 through 2016**

**Table 9**

*Amounts in millions of USD*

Calendar Year of Levy <sup>1</sup>	Assessed Value on Certification Date <sup>3</sup>	Less: Tax-Exempt Property <sup>2,3</sup>	Less: Homestead Exemption <sup>7</sup>	Total Taxable Assessed Value <sup>2,3</sup>	Less: Adjustments between Certification Date and Billing Date <sup>3</sup>	Total Taxable Assessed Value on Billing Date	Total Direct Tax Rate <sup>4</sup>	STEB Ratio <sup>5</sup>	Estimated Actual Taxable Value (STEB)	Sales Ratio <sup>6</sup>	Estimated Actual Taxable Value (Sales)
2007	16,243	4,628		11,615		11,615	3.474%	29.22%	39,750	17.42%	66,676
2008	16,974	4,799		12,175		12,175	3.305%	28.86%	42,186	17.94%	67,865
2009	17,352	5,146		12,206		12,206	3.305%	28.46%	42,888	16.44%	74,246
2010	17,615	5,339		12,276		12,276	3.305%	26.73%	45,926	24.64%	49,821
2011	17,940	5,593		12,347		12,347	4.123%	28.05%	44,018	13.35%	92,487
2012	18,022	5,685		12,337		12,337	4.123%	28.87%	42,733	13.13%	93,960
2013	18,181	5,765		12,416		12,416	4.462%	28.68%	43,291	11.88%	104,512
2014	137,404	37,462	5,429	94,513	2,590	91,923	0.602%	224.40%	42,118	NA	NA
2015	136,341	37,223	6,411	92,707	1,777	90,930	0.602%	213.95%	43,331	NA	NA
2016	136,295	38,386	6,372	91,537	1,369	90,168	0.632%	NA	NA	NA	NA

<sup>1</sup> Real property tax bills are normally sent out in December and are payable at one percent (1%) discount until February 28th, otherwise the face amount is due by March 31 without penalty or interest.

<sup>2</sup> Bill #1130, approved February 8, 1978, provides relief from real estate taxes on improvements to deteriorated industrial, commercial or other business property for a period of five years. Bill #982, approved July 9, 1990, changed the exemption period from five years to three years. Bill #225, approved October 4, 2000, extended the exemption period from three years to ten years.

Bill #1456A, approved January 28, 1983, provides for a maximum three year tax abatement for owner-occupants of newly constructed residential property. Bill #226, approved September 12, 2000, extended the exemption period from three years to ten years.

Legislative Act #5020-205 as amended, approved October 11, 1984, provides for a maximum thirty month tax abatement to developers of residential property.

Bill #274, approved July 1, 1997, provides a maximum ten year tax abatement for conversion of eligible deteriorated commercial or other business property to commercial non-owner occupied residential property.

Bill #788A, approved December 30, 1998, provides a maximum twelve year tax exemption, abatement or credit of certain taxes within the geographical area designated as the Philadelphia Keystone Opportunity Zone.

<sup>3</sup> Source: Office of Property Assessment. Beginning in 2014:

- a) the Assessed Value Certification Date was moved up to 3/31/2013; in prior years, the Certification Date occurred on or slightly before the Billing Date (in November)
- b) the City re-evaluated all real property at its current market value, based upon the Actual Value Initiative (AVI).

<sup>4</sup> Total Direct Tax Rate is City portion only and excludes the School District portion (see statistical table #7 for breakdown).

<sup>5</sup> The State Tax Equalization Board (STEB) annually determines a ratio of assessed valuation to true value for each municipality in the Commonwealth of Pennsylvania. See Table 13.

<sup>6</sup> This ratio is compiled by the Office of Property Assessment based on sales of property during the year.

<sup>7</sup> Starting in 2014, the City provided for a \$30,000 Homestead Exemption (amount subject to change) to all homeowners.

**City of Philadelphia**  
**Principal Property Tax Payers**  
**Current Year and Nine Years Ago**

**Table 10**

*Amounts in millions of USD*

Taxpayer	2016			2007		
	Assessment <sup>1</sup>	Rank	Percentage of Total Assessments	Assessment <sup>1</sup>	Rank	Percentage of Total Assessments
HUB Properties Trust	265.7	1	0.29	48.0	4	0.41
Nine Penn Center Associates	232.6	2	0.25	54.1	2	0.47
Phila Liberty Pla E Lp	207.7	3	0.23	54.4	1	0.47
Philadelphia Market Street	203.7	4	0.22	28.8	10	0.25
Tenet Healthsystem Hahnem	192.1	5	0.21	-	-	-
Commerce Square Partners	178.2	6	0.19	33.3	7	0.29
Maguire/Thomas Partners	170.1	7	0.19	33.9	6	0.30
NNN 1818 Market St. 37	170.0	8	0.19	-	-	-
Franklin Mills Associates	163.2	9	0.18	48.4	3	0.42
Brandywine Cira LP	160.7	10	0.18	-	-	-
Bell Atlantic Properties	-	-	-	43.3	5	0.37
PRU 1901 Market LLC	-	-	-	32.9	8	0.28
Phila Shipyard Development Corp				30.3	9	0.26
	<u>1,944.0</u>		<u>2.12</u>	<u>407.4</u>		<u>3.51</u>
Taxable Assessments (before Homestead) <sup>2</sup>	<u>97,909.0</u>		<u>100.00</u>	<u>11,614.9</u>		<u>100.00</u>
Less Homestead Exemption <sup>2</sup>	<u>6,372.5</u>			<u>0.0</u>		
Total Taxable Assessments	<u>91,536.5</u>			<u>11,614.9</u>		

<sup>1</sup> Source: Office of Property Assessment.

a) 2016 Assessment as of March 2015.

b) 2007 Assessment as of November 2006.

<sup>2</sup> In calendar year 2014,

a) the City re-evaluated all real property at its current market value, based upon the Actual Value Initiative (AVI).

b) the City initiated a new \$30,000 Homestead Exemption to all homeowners.

**City of Philadelphia**  
**Real Property Tax Levied and Collected**  
**For the Calendar Years 2007 through 2016**  
**General Fund**

**Table 11**

*Amounts in millions of USD*

Calendar Year	Taxes Levied for the Year **1	Taxes Levied Based on Adjusted Assessment **2	Collected in the Calendar Year of Levy **3	Percentage Collected in the Calendar Year of Levy **5	Collected in Subsequent Years **4	Total Collected to Date: All Years	Percentage Collected to Date: All Years **5
2007	391.7	NA	347.5	88.7%	40.4	387.9	99.0%
2008	390.2	NA	346.4	88.8%	39.1	385.5	98.8%
2009	396.5	NA	315.4	79.5%	72.6	388.0	97.9%
2010	405.8	NA	353.7	87.2%	36.4	390.1	96.1%
2011	509.1	NA	440.9	86.6%	45.0	485.9	95.4%
2012	508.6	491.1	459.2	93.5%	22.7	481.9	98.1%
2013	554.0	537.7	505.6	94.0%	22.8	528.4	98.3%
2014	553.2	515.4	482.1	93.5%	21.2	503.3	97.7%
2015	547.4	519.1	489.1	94.2%	10.9	500.0	96.3%
2016	569.9	552.7	502.6	90.9%	N/A	502.6	90.9%

\*\*1 Taxes are levied on a calendar year basis, this column represents the initial bill. They are due on March 31st.

\*\*2 Adjustments include assessment appeals, a 1% discount for payment in full by the end of February, the senior citizen tax freeze, and the tax increment financing (TIF) return of tax paid.

For 2014, adjustment include the Longtime Owner Occupants Program (LOOP), since the program was implemented after the initial bills were sent.

\*\*3 For 2016, "collections in the calendar year of levy" does not include the full 12 months; it only includes collections thru the end of June 2016.

\*\*4 Includes payments from capitalized interest. This capitalization occurs only after the first year of the levy on any amount that remains unpaid at that time.

Note that all amounts in this table pertain to the General Fund only and do not include amounts levied and collected for the school district.

The collection percentages for the school district are the same as for the General Fund.

\*\*5 For calendar years 2007 to 2011, "percentage collected in the calendar year of levy" and "percentage collected to date: all years" are based on "taxes levied for the year", since "taxes levied based on adjusted assessment" data is unavailable for these years.

**City of Philadelphia**  
**Ratios of Outstanding Debt by Type**  
**For the Fiscal Years 2007 through 2016**

**Table 12**

*Amounts in millions of USD (except per capita)*

Fiscal Year	Governmental Activities										
	General Obligation Bonds	Capital Leases	Pension Service Agreement	City Service Agreement	Neighborhood Transformation Initiative	One Parkway Agreement	Sports Stadia Agreement	Central Library Project	Cultural & Commercial Corridor	PAID School District	Total Governmental Activities
2007	\$ 1,993.7	\$ -	\$ 1,444.9	\$ -	\$ 273.9	\$ 49.6	\$ 334.0	\$ 9.7	\$ 139.6	\$ -	\$ 4,245.4
2008	1,899.1	-	1,446.6	-	267.8	47.7	328.8	9.3	136.6	-	4,135.9
2009	2,093.8	-	1,443.8	-	261.5	46.3	323.6	8.9	133.3	-	4,311.2
2010	2,085.1	31.1	1,428.3	-	254.8	44.9	319.6	8.5	129.9	-	4,302.2
2011	2,135.0	51.7	1,407.3	-	247.8	43.4	314.9	8.1	126.4	-	4,334.6
2012	2,041.1	40.6	1,379.3	-	240.3	41.9	310.0	7.7	122.8	-	4,183.7
2013	1,968.7	28.9	1,171.3	423.3	234.1	41.8	313.0	7.7	119.9	-	4,308.7
2014	2,139.7	16.9	1,121.4	299.8	225.5	39.6	300.6	7.2	116.0	27.3	4,294.0
2015	1,996.0	12.9	1,063.2	299.8	216.4	37.3	291.9	6.7	111.8	43.3	4,079.3
2016	2,073.6	8.8	997.5	299.8	205.8	34.9	277.2	6.7	108.5	29.1	4,041.9

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Fiscal Year	Business-Type Activities				Ratios			
	General Obligation Bonds	Water Revenue Bonds	Airport Revenue Bonds	Total Business-Type Activities	Total Primary Government	Percentage of Personal Income (1)	Population (1)	Per Capita
2007	\$ 5.8	\$ 1,674.3	\$ 1,141.0	\$ 2,821.1	\$ 7,066.5	14.86%	1,520,251	\$ 4,648
2008	4.6	1,590.0	1,282.2	2,876.8	7,012.7	13.84%	1,530,031	4,583
2009	3.4	1,648.7	1,250.4	2,902.5	7,213.7	13.29%	1,540,351	4,683
2010	2.2	1,574.9	1,213.9	2,791.0	7,093.2	13.12%	1,547,297	4,584
2011	1.0	1,738.2	1,450.8	3,190.0	7,524.6	13.21%	1,526,006	4,931
2012	-	1,819.9	1,383.1	3,203.0	7,386.7	11.79%	1,538,567	4,801
2013	-	1,830.4	1,355.4	3,185.8	7,494.5	11.68%	1,547,607	4,843
2014	-	1,935.3	1,291.7	3,227.0	7,521.0	11.49%	1,553,165	4,842
2015	-	2,110.8	1,225.3	3,336.1	7,415.4	11.15%	1,560,297	4,753
2016	-	1,967.1	1,160.9	3,128.0	7,169.9	9.20%	1,567,442	4,574

(1) See Table 17 for Personal Income and Population Amounts

**City of Philadelphia**  
**Ratios of General Bonded Debt Outstanding**  
**For the Fiscal Years 2007 through 2016**

**Table 13**

*Amounts in millions of USD (except per capita)*

Fiscal Year	General Obligation Bonds	Assessed Taxable Value of Property <sup>1</sup>	Assessed Ratio <sup>2</sup>	Actual Taxable Value of Property	% of Actual Taxable Value of Property	Per Capita <sup>3</sup>
2007	1,993.7	11,615.0	29.22%	39,750.2	5.02%	1,303.05
2008	1,899.1	12,175.2	28.86%	42,187.1	4.50%	1,232.90
2009	2,093.8	12,205.6	28.46%	42,886.9	4.88%	1,353.20
2010	2,085.1	12,276.3	26.73%	45,927.0	4.54%	1,366.38
2011	2,135.0	12,347.1	28.05%	44,018.2	4.85%	1,387.65
2012	2,041.1	12,337.0	28.87%	42,732.9	4.78%	1,318.87
2013	1,968.7	12,416.0	28.68%	43,291.5	4.55%	1,267.54
2014	2,139.7	94,513.0	224.40%	42,118.1	5.08%	1,371.34
2015	1,996.0	92,707.0	213.95%	43,331.2	4.61%	1,273.41
2016	2,073.6	91,536.5	NA	NA	NA	NA

Note: Details regarding the City's outstanding debt can be found in the notes to the financial statement.

<sup>1</sup> Source: Office of Property Assessment

<sup>2</sup> The State Tax Equalization Board (STEB) annually determines a ratio of assessed valuation to true value for each municipality in the Commonwealth of Pennsylvania. The ratio is used for the purpose of equalizing certain state school aid distribution.

<sup>3</sup> See Table 17 for Population Amounts

**City of Philadelphia**  
**Direct and Overlapping Governmental Activities Debt**  
**June 30, 2016**

**Table 14**

*Amounts in millions of USD*

	<u>Debt Outstanding</u>	<u>Estimated Percentage Applicable</u>	<u>Estimated Share of Direct and Overlapping Debt</u>
<b><u>Governmental Unit</u></b>			
School District of Philadelphia	<u>2,984.5</u>	<u>100.00%</u>	<u>2,984.5</u>
<sup>1</sup> <b>City Direct Debt</b>			<u>4,041.9</u>
Total Direct and Overlapping Debt			<u><u>7,026.4</u></u>

**Note:**

Overlapping governments are those that coincide, in least in part, with the geographic boundaries of the City. The outstanding debt of the School District of Philadelphia is supported by property taxes levied on properties within the City boundaries. This schedule attempts to show the entire debt burden borne by City residents and businesses.

<sup>1</sup> Refer to Table 12

City of Philadelphia  
Legal Debt Margin Information  
For the Fiscal Years 2007 through 2016

Table 15

Amounts in Millions of USD

Legal Debt Margin Calculation for FY2016

Assessed Value	40,400.0
Debt Limit	5,454.0
<sup>1</sup> Debt Applicable to Limit:	
Tax Supported General Obligation Debt:	
Issued & Outstanding	1,504.7
Authorized but Unissued	336.7
Total	1,841.4
Less: Amount set aside for repayment of general obligation debt	-
Total Net Debt Applicable to Limit	1,841.4
Legal Debt Margin	3,612.6

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
Debt Limit (notes 2, 3, 4, and 5)	1,374.7	1,418.0	1,469.4	1,523.4	1,571.9	1,622.3	1,670.0	3,011.1	4,288.7	5,454.0
Total Net Debt Applicable to Limit	1,293.4	1,329.3	1,352.3	1,407.0	1,474.6	1,542.5	1,617.9	1,673.4	1,751.0	1,841.4
Legal Debt Margin	81.3	88.7	117.1	116.4	97.3	79.8	52.1	1,337.7	2,537.7	3,612.6
Total Net Debt Applicable to the Limit as a Percent of Total Debt	94.09%	93.74%	92.03%	92.36%	93.81%	95.08%	96.88%	55.57%	40.83%	33.76%

<sup>1</sup> Refer to Purdon's Statutes 53 P.S. Section 15721

<sup>2</sup> The legal limit is based on the Pennsylvania Constitution article IX Section 12.

<sup>3</sup> Tax Years 2006-2013 assessed values were provided by OPA via The Department of Revenue..

<sup>4</sup> Calendar Year 2013/Tax Year 2014 assessed values were provided by OPA. The higher amount was due to the implementation of the AVI (Actual Value Initiative) in 2013.

<sup>5</sup> Beginning in 2014, the Finance Department began using calendar Year assessed value to calculate the proceeding 10 year average; prior to this change, the Tax Year assessed values was used.

Calendar Year of assessment	4 Tax Year of assessment	3,4 R.E. Assessments
2006	2007	12,268,019,348
2007	2008	12,901,810,390
2008	2009	13,307,070,680
2009	2010	13,102,186,291
2010	2011	13,522,847,116
2011	2012	13,602,484,741
2012	2013	13,755,670,566
2013	2014	107,209,023,547
2014	2015	106,062,882,977
2015	2016	98,268,051,621
Ten Year average		40,400,004,727.7
Limit per art. 9		13.50%
Legal Debt Limit		5,454,000,638



**City of Philadelphia**  
**Pledged Revenue Coverage**  
**For the Fiscal Years 2007 through 2016**

**Table 16**

*Amounts in millions of USD*

No.		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b><u>Water and Sewer Revenue Bonds</u></b>											
1	Total Revenue and Beginning Fund Balance	536.2	597.8	527.5	566.7	589.7	613.3	638.4	680.4	676.8	678.9
2	Net Operating Expenses	303.2	334.7	342.6	334.0	357.7	375.1	399.3	410.8	402.9	408.6
3	Transfer To (From) Rate Stabilization Fund	26.0	(9.8)	(34.7)	(2.7)	10.9	8.5	(4.7)	22.9	21.4	(1.6)
4	Net Revenues	207.0	272.9	219.6	235.4	221.1	229.7	243.8	246.7	252.5	271.9
Debt Service:											
5	Revenue Bonds Outstanding	172.7	173.8	183.0	195.7	184.3	191.4	201.0	201.7	205.3	219.3
6	General Obligation Bonds Outstanding	-	-	-	-	-	-	-	-	-	-
7	Pennvest Loan	1.2	1.2	1.2	1.2	1.2	1.0	-	-	-	-
8	Total Debt Service	173.9	175.0	184.2	196.9	185.5	192.4	201.0	201.7	205.3	219.3
9	Net Revenue after Debt Service	33.1	97.9	35.4	38.5	35.6	37.3	42.8	45.0	47.2	52.6
10	Transfer to General Fund	5.0	5.0	4.2	2.3	-	1.1	0.6	-	-	-
11	Transfer to Capital Fund	16.9	16.9	17.1	17.3	18.1	18.9	19.4	20.2	20.7	21.5
12	Transfer to Residual Fund	11.2	76.0	14.1	18.9	17.5	17.3	22.8	24.8	26.5	31.1
13	Ending Fund Balance	-	-	-	-	-	-	-	-	-	-
Debt Service Coverage:											
	Coverage A (Line 4/Line 5)	1.20	1.57	1.20	1.20	1.20	1.20	1.21	1.22	1.23	1.24
	Coverage B (Line 4/(Line 8 + Line 11))	1.08	1.42	1.09	1.10	1.09	1.09	1.11	1.11	1.12	1.13
<b><u>Airport Revenue Bonds</u></b>											
1	Fund Balance	10.2	42.6	61.4	55.1	77.6	65.9	69.3	66.5	66.3	71.2
2	Project Revenues	211.3	250.5	255.3	246.9	260.8	269.6	291.8	316.9	322.8	341.2
3	Passenger Facility Charges	32.9	32.9	32.9	33.1	32.4	31.6	31.2	31.2	31.2	31.2
4	Total Fund Balance and Revenue	254.4	326.0	349.6	335.1	370.8	367.1	392.3	414.6	420.3	443.6
5	Net Operating Expenses	87.1	99.8	99.5	102.9	98.1	99.0	110.7	117.3	126.0	132.1
6	Interdepartmental Charges	70.6	89.1	89.0	80.7	88.6	92.7	101.9	103.9	108.7	106.8
7	Total Expenses	157.7	188.9	188.5	183.6	186.7	191.7	212.6	221.2	234.7	238.9
Available for Debt Service:											
8	Revenue Bonds (Line 4-Line 5)	167.3	226.2	250.1	232.2	272.7	268.1	281.6	297.3	294.3	311.5
9	All Bonds (Line 4-Line 7)	96.7	137.1	161.1	151.5	184.1	175.4	179.7	193.4	185.6	204.7
Debt Service:											
10	Revenue Bonds	85.5	84.4	95.6	94.3	102.4	103.0	109.8	125.4	125.2	120.6
11	General Obligation Bonds	-	-	-	-	-	-	-	-	-	-
12	Total Debt Service	85.5	84.4	95.6	94.3	102.4	103.0	109.8	125.4	125.2	120.6
Debt Service Coverage:											
	Revenue Bonds Only - Test "A" (Line 8/Line 10)	1.96	2.68	2.62	2.46	2.66	2.60	2.56	2.37	2.35	2.58
	Total Debt Service - Test "B" (Line 9/Line 12)	1.13	1.62	1.69	1.61	1.80	1.70	1.64	1.54	1.48	1.69

**Note:**

The rate covenant of the Aviation issues permit inclusion of Fund Balance at the beginning of the period with project revenues for the period to determine adequacy of coverage.

Coverage "A" requires that Net Revenues equal at least 120% of the Debt Service Requirements while Coverage "B" requires that Net Revenues equal at least 100% of the Debt Service Requirements plus Required Capital Account Transfers. Test "A" requires that Project Resources be equal to Net Operating Expenses plus 150% of Revenue Bond Debt Service for the year. Test "B" requires Project Resources be equal to Operating Expenses for the year plus all debt service requirements for the year except any General Obligation Debt Service not applicable to the project.

Amounts in the above statement have been extracted from reports submitted to the respective Fiscal Agents in accordance with the reporting requirements of the General Ordinance and Supplemental Ordinance relative to rate covenants. Water and Sewer Coverage is calculated on the modified accrual basis; Aviation Fund on the accrual basis. Prior to FY2008 Airport Revenues and Expenses were reduced by amounts applicable to the Outside Terminal Area and the Overseas Terminal as prescribed by the indenture.

Prior to FY 2015, Commitments Cancelled were included as part of Total Revenue and Beginning Fund Balance. Commitments Cancelled represent the liquidation of encumbrances.

An encumbrance is an expense that is anticipated to be charged to the Water Fund. Beginning in FY 2015 these amounts were reclassified as contra-expenses and reported under Net Operating Expenses.

**City of Philadelphia**  
**Demographic and Economic Statistics**  
**For the Calendar Years 2006 through 2015**

**Table 17**

Calendar Year	Population <sup>1</sup>	Personal Income <sup>2</sup> (thousands of USD)	Per Capita Personal Income (USD)	Unemployment Rate <sup>3</sup>
2006	1,520,251	47,566,075	31,288	6.2%
2007	1,530,031	50,672,227	33,118	6.0%
2008	1,540,351	54,262,716	35,228	7.1%
2009	1,547,297	54,061,223	34,939	9.6%
2010	1,526,006	56,970,074	37,333	10.8%
2011	1,538,567	62,632,520	40,708	10.8%
2012	1,547,607	64,151,742	41,452	10.5%
2013	1,553,165	65,473,002	42,155	10.0%
2014	1,560,297	66,495,223	42,617	8.0%
2015	1,567,442	77,903,831	49,701	6.9%

<sup>1</sup> US Census Bureau

<sup>2</sup> US Department of Commerce, Bureau of Economic Analysis

<sup>3</sup> US Department of Labor, Bureau of Labor Statistics

**City of Philadelphia**  
**Principal Employers**  
**Current Calendar Year and Nine Years Ago**

**Table 18**

*Listed Alphabetically*

2015	2006
CHILDRENS' HOSPITAL OF PH	ALBERT EINSTEIN MEDICAL
CITY OF PHILA	CHILDRENS' HOSPITAL OF PH
COMCAST CABLEVISION OF WILLOW GROVE INC	CITY OF PHILA
DREXEL UNIVERSITY	SCHOOL DIST OF PHILA
SCHOOL DIST OF PHILA	SEPTA
SEPTA	TEMPLE UNIVERSITY
TEMPLE UNIVERSITY	TENET HEALTHSYSTEM PHILADELPHIA INC
THOMAS JEFFERSON UNIVERSITY HOSPITALS	THOMAS JEFFERSON UNIVERSITY HOSPITALS
UNIVERSITY OF PENNA (college)	UNIVERSITY OF PENNA (college)
UNIVERSITY OF PENNA (hospital)	UNIVERSITY OF PENNA TRUSTEES (hospital)

**City of Philadelphia**  
**Full Time Employees by Function**  
**For the Fiscal Years 2007 through 2016**

**Table 19**

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
<b>Governmental Activities:</b>										
Economic Development	9	6	23	25	27	28	31	29	33	43
Transportation:										
Streets & Highways	667	584	568	515	499	524	517	525	506	512
Mass Transit	1	1	8	7	9	13	15	15	12	12
Judiciary and Law Enforcement:										
Police	8,036	7,754	7,685	7,503	7,439	7,292	7,270	7,177	7,267	7,750
Prisons	1,991	2,153	2,309	2,268	2,173	2,150	2,245	2,257	2,286	2,280
Courts	3,500	3,386	3,310	3,215	3,225	3,249	3,260	3,234	3,255	3,276
Conservation of Health:										
Emergency Medical Services	311	237	256	329	341	338	375	494	576	534
Health Services	1,236	1,140	1,163	1,135	1,139	1,143	1,117	1,097	1,084	1,062
Housing and Neighborhood Development	120	108	99	96	94	83	75	72	74	66
Cultural and Recreational:										
Recreation	589	483	462	453	601	605	596	587	628	636
Parks	217	156	152	158	1	-	-			
Libraries and Museums	829	808	723	687	682	658	651	637	674	666
Improvements to General Welfare:										
Social Services	2,218	2,232	2,107	2,079	1,989	1,924	1,832	1,809	1,801	1,779
Inspections and Demolitions	450	246	221	223	214	230	286	288	319	323
Service to Property:										
Sanitation	1,338	1,239	1,169	1,157	1,185	1,154	1,152	1,158	1,155	1,159
Fire	2,121	2,052	2,019	1,820	1,838	1,700	1,705	1,643	1,719	1,871
General Management and Support	2,494	2,414	2,393	2,276	2,225	2,454	2,384	2,456	2,497	2,601
<b>Total Governmental Activities</b>	<b>26,127</b>	<b>24,999</b>	<b>24,667</b>	<b>23,946</b>	<b>23,681</b>	<b>23,545</b>	<b>23,511</b>	<b>23,478</b>	<b>23,886</b>	<b>24,570</b>
<b>Business Type Activities:</b>										
Water and Sewer	2,415	2,291	2,256	2,196	2,116	2,228	2,218	2,302	2,347	2,358
Aviation	915	1,057	1,033	1,001	1,010	1,021	1,057	1,040	1,021	1,032
<b>Total Business-Type Activities</b>	<b>3,330</b>	<b>3,348</b>	<b>3,289</b>	<b>3,197</b>	<b>3,126</b>	<b>3,249</b>	<b>3,275</b>	<b>3,342</b>	<b>3,368</b>	<b>3,390</b>
<b>Fiduciary Activities:</b>										
Pension Trust	62	59	69	66	65	61	53	50	55	56
<b>Total Primary Government</b>	<b>29,519</b>	<b>28,406</b>	<b>28,025</b>	<b>27,209</b>	<b>26,872</b>	<b>26,855</b>	<b>26,839</b>	<b>26,870</b>	<b>27,309</b>	<b>28,016</b>

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Governmental Activities:</b>										
<b>Transportation:</b>										
<b>Streets &amp; Highways</b>										
Street Resurfacing (miles)	107	74	119	69	36	37	51	34	40	43
Potholes Repaired	12,721	12,326	11,976	23,049	24,406	14,451	12,093	45,077	48,274	35,541
<b>Judiciary and Law Enforcement:</b>										
<b>Police</b>										
Arrests	73,606	75,805	68,922	64,465	73,310	70,971	71,109	71,650	71,661	55,693
Calls to 911	3,398,985	3,164,454	3,084,261	3,064,973	2,949,231	3,118,648	2,979,990	2,879,620	2,978,527	3,703,809
<b>Prisons</b>										
Average Inmate Population	8,796	9,133	9,554	8,806	7,935	8,240	8,987	8,759	8,254	7,685
Inmate Beds (city owned)	8,443	9,005	9,137	9,137	8,200	8,417	8,417	8,417	8,417	8,428
<b>Conservation of Health:</b>										
<b>Emergency Medical Services</b>										
Medic Unit Runs	216,606	215,305	217,505	222,882	227,147	273,557	280,877	239,403	243,127	263,754
First Responder Runs	68,203	60,756	53,610	54,960	66,763	60,972	57,047	60,296	49,529	48,965
<b>Health</b>										
Patient Visits	323,121	334,139	349,078	350,695	339,032	348,472	341,305	309,911	290,000	72,479
<b>Cultural and Recreational:</b>										
<b>Parks</b>										
Athletic Field Permits Issued	2,227	1,389	1,420	1,388	2,714	1,978	2,442	873	1,634	2,501
<b>Libraries</b>										
Items borrowed	6,328,706	7,037,694	7,419,466	6,530,662	7,210,217	7,503,031	6,579,054	6,502,087	6,511,582	5,926,481
Visitors to all libraries	6,422,857	6,648,998	6,396,633	5,615,201	6,103,528	6,020,321	6,116,762	5,563,015	5,891,382	5,839,145
Visitors to library website	3,285,380	4,912,405	4,613,496	5,256,928	6,131,726	6,886,339	7,301,311	8,194,626	9,907,573	7,971,946
<b>Improvements to General Welfare:</b>										
<b>Social Services</b>										
Children Receiving Services	28,898	25,893	35,685	31,416	28,572	28,939	27,391	17,761	18,982	19,697
Children in Placement	8,070	7,739	7,993	8,792	7,122	7,839	8,509	8,548	7,809	8,463
Emergency Shelter Beds (average)	2,677	2,747	2,689	2,617	2,520	2,987	2,116	2,544	2,708	2,196
Transitional Housing Units (new placements)	543	435	476	487	510	558	539	509	509	517
<b>Service to Property:</b>										
<b>Sanitation</b>										
Refuse Collected (tons per day)	2,922	2,798	2,532	2,412	2,254	2,299	2,179	2,132	2,139	2,270
Recyclables Collected (tons per day)	179	197	288	381	441	461	470	490	442	425
<b>Fire</b>										
Fires Handled	8,080	7,444	6,850	4,927	7,945	7,319	6,365	6,120	6,364	6,143
Fire Marshall Investigations	3,153	3,097	3,031	2,726	2,711	2,387	2,135	1,943	2,183	1,715
<b>Business Type Activities:</b>										
<sup>2</sup> <b>Water and Sewer</b>										
Millions of gallons of treated water	95,374	93,679	91,747	91,560	93,886	87,341	89,616	90,213	86,416	84,573
Percent of time Philadelphia's drinking water met or surpassed state & federal standards	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Miles of pipeline surveyed for leakage	948	1,113	931	1,133	995	1,137	962	775	637	682
Water main breaks repaired	835	679	807	664	962	563	755	918	907	703
Average time to repair a water main break upon crew arrival at site (hours)	7.6	7.6	7.6	7.8	7.7	7.7	5.8	6.2	5.7	6.8
Percent of hydrants available	99.70%	99.70%	99.60%	99.58%	99.58%	99.70%	99.68%	99.68%	99.61%	99.60%
Number of storm drains cleaned	78,478	75,804	77,012	72,802	71,771	84,395	100,251	94,653	103,056	98,105
<sup>1</sup> <b>Aviation</b>										
Passengers Handled (PIA)	31,885,333	32,287,035	30,819,348	30,469,899	31,225,470	30,612,150	30,358,905	30,539,430	30,601,985	31,336,138
Air Cargo Tons (PIA)	571,452	575,640	475,365	440,495	449,683	416,731	388,383	395,661	402,194	414,891
Aircraft Movements (PIA and NPA)	614,720	593,757	551,191	543,462	458,832	517,842	506,261	493,272	487,096	407,968

<sup>1</sup> PIA (Philadelphia International Airport)-passenger aircraft and cargo. NPA (Northeast Philadelphia Airport)-private aircraft and cargo

<sup>2</sup> In prior year Comprehensive Annual Financial Report (CAFR), Philadelphia Water Department (PWD) reported the following metrics: new connections, the number of water main breaks, average and peak daily treated water delivered, average daily water sewage treatment

City of Philadelphia  
Capital Assets Statistics by Function  
For the Fiscal Years 2007 through 2016

Table 21

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
<b>Governmental Activities:</b>										
<b>Transportation:</b>										
<b>Streets &amp; Highways</b>										
<sup>1</sup> Total Miles of Streets	2,575	2,575	2,575	2,575	2,575	2,575	2,575	2,575	2,575	2575
Streetlights	102,840	102,949	103,982	104,219	104,219	104,600	105,151	105,151	105,151	105,151
<b>Judiciary and Law Enforcement:</b>										
<b>Police</b>										
Stations and Other Facilities	34	36	35	35	31	32	37	39	40	50
<b>Prisons</b>										
Major Correctional Facilities	6	6	6	6	6	6	6	6	6	6
<b>Conservation of Health:</b>										
<b>Health Services</b>										
Health Care Centers	9	9	9	9	9	9	9	9	9	8
<b>Cultural and Recreational:</b>										
<b>Recreation</b>										
<sup>5</sup> Recreation Centers	171	171	171	171	153	184	185	184	155	164
<sup>2</sup> Athletic Venues	1,117	919	915	914	1,148	1,102	1,101	1,107	1,108	1107
<sup>4</sup> Neighborhood Parks and Squares	232	79	79	79	-	-	-	-	-	-
<b>Parks</b>										
Parks	63	63	63	63	150	177	177	177	209	209
Baseball/Softball Fields	109	77	79	79	407	404	404	403	403	404
<b>Libraries</b>										
Branch & Regional Libraries	54	54	54	54	54	54	54	54	54	54
<b>Service to Property:</b>										
<b>Fire</b>										
Stations and Other Facilities	64	64	63	63	63	68	68	68	69	63
<b>Business Type Activities:</b>										
<b>Water and Sewer:</b>										
Water System Piping (miles)	3,133	3,137	3,145	3,236	3,164	3,172	3,174	3,176	3,176	3,187
Fire Hydrants	25,195	25,181	25,208	25,234	25,353	25,321	25,355	25,364	25,364	25,398
Treated Water Storage Capacity ( x 1000 gallons)	1,065,500	1,065,500	1,065,500	1,065,400	1,065,400	1,065,400	1,065,400	1,065,400	1,065,000	1,065,000
Sanitary Sewers (miles)	768	750	749	751	758	759	762	762	762	763
Stormwater Conduits (miles)	784	713	720	721	731	734	738	737	737	740
Sewage Treatment Capacity ( x 1000 gallons)	1,044,000	1,044,000	1,044,000	1,044,000	1,044,000	1,044,000	1,065,400	1,044,000	1,044,000	1,044,000
<sup>3</sup> <b>Aviation</b>										
Passenger Gates (PIA)	120	120	120	120	126	126	126	126	126	126
Terminal Buildings (square footage) (PIA)	2,415,000	2,415,000	2,415,000	3,144,000	3,144,000	3,144,000	3,144,000	3,254,354	3,254,354	3,254,354
Runways (length in feet) (PIA & NPA)	42,460	42,460	43,500	43,500	43,500	43,500	43,500	43,500	43,500	43,500

<sup>1</sup> Street System-83% city streets, 2% park streets, 15% state highways

<sup>2</sup> Includes baseball fields, football/soccer fields, tennis, basketball and hockey courts, skating rinks and indoor and outdoor pools

<sup>3</sup> PIA (Philadelphia International Airport)-passenger aircraft and cargo. NPA (Northeast Philadelphia Airport)-private aircraft and cargo.

<sup>4</sup> FPC and Recreation Dept were merged in FY2011, hence the category of Neighborhood Parks and Squares was eliminated.

## **APPENDIX D**

### **SUMMARY OF CERTAIN PROVISIONS OF THE INDENTURE, THE GROUND LEASE, AND THE PRIME LEASE**

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## **SUMMARY OF CERTAIN PROVISIONS OF THE INDENTURE, THE GROUND LEASE AND THE PRIME LEASE**

The following sets forth the definitions of certain terms used in the Indenture, the Ground Lease and the Prime Lease and elsewhere in this Official Statement, and a summary of certain provisions of the Indenture, the Ground Lease and the Prime Lease. Capitalized terms used but not defined herein shall have the meanings set forth in the forepart of this Official Statement.

These summaries should not be regarded as full statements of the legal documents themselves or of the portions summarized. For a complete statement of the provisions of the Indenture, the Ground Lease and the Prime Lease, reference should be made to those documents in their entirety, copies of which are available from the Authority and, prior to closing on the 2017 Bonds, at the offices of Citigroup Global Markets Inc., and the Trustee after closing as set forth under “INTRODUCTION – Miscellaneous” in this Official Statement.

### **Definitions**

“Act of Bankruptcy” shall mean that (i) a party shall have commenced a voluntary case under bankruptcy law, applied for or consented to the appointment of or taking of possession by a receiver, trustee, assignee, custodian or liquidator of all or a substantial part of its assets; (ii) a party shall have failed, or admitted in writing its inability generally, to pay its debts as such debts become due; (iii) a party shall have made a general assignment for the benefit of creditors; (iv) a party shall have been adjudicated as bankrupt or shall have filed a petition or an answer seeking an arrangement with creditors; (v) a party shall have taken advantage of an insolvency law, or shall have submitted an answer admitting the material allegations of a petition in bankruptcy or insolvency proceeding; (vi) an order, judgment or decree for relief shall have been entered in an involuntary case against a party, without the application, approval or consent of such party, by any court of competent jurisdiction appointing a receiver, trustee, assignee, custodian or liquidator, for the party or for a substantial part of any of its assets, and such order, judgment or decree shall continue unstayed and in effect for any period of 60 consecutive days; or (vii) an involuntary petition in bankruptcy shall have continued undismissed for 60 days after the filing thereof.

“Additional Bonds” shall mean the 2017 Bonds and any other Bonds, other than the 2009 Bonds, issued pursuant to the Indenture.

“Administrative Expenses” shall mean those expenses incurred by the Authority which are properly chargeable as administrative expenses necessary for the Project or any other Capital Addition or in connection with the Prime Lease or the Indenture and any transaction or event contemplated by the Prime Lease or the Indenture and include, without limiting the generality of the foregoing, the following: (a) fees and expenses of the Trustee and any Paying Agent under the Indenture, and rating agency fees; (b) fees and expenses of the Authority’s professional advisors required by the Indenture or the Prime Lease or reasonably necessary and fairly attributable to the Project or any other Capital Addition and/or the Leased Premises, including, without limiting the generality of the foregoing, fees and expenses of the Authority’s Consulting Engineer, Consultants, Certified Public Accountant and Counsel; (c) costs of preliminary studies, surveys, planning, testing and design works; (d) fees and expenses of engineers, architects, financial advisors, attorneys and other experts engaged in connection with the Project; (e) financing costs, including interest on money borrowed to finance the Project, if capitalized; (f) fees and expenses relating to temporary loans in connection with the Project; (g) any up front, periodic or termination payments or any collateral due to a counterparty under any qualified interest rate management agreement (upon authorization by ordinance of City Council) or due to a provider of a Credit Facility; (h) costs and premiums for insurance policies and renewals thereof; and (i) all rebate payments required to be made to the United States Treasury by the Authority pursuant to the Code and the Indenture.

“Authority’s Board” shall mean the governing body of the Authority.

“Bond” or “Bonds” shall mean the 2009 Bonds and the 2017 Bonds together with any other Additional Bonds authenticated and delivered under the Indenture.

“Bond Fund” shall mean the fund so designated which is established pursuant to the Indenture which shall be used to pay the principal or Redemption Price of and interest on the Bonds.

“Business Day” shall mean any day other than a Saturday, Sunday or a day on which the Trustee or any Paying Agent is authorized by law to remain closed.

“Capital Additions” shall mean real and personal property of any kind and any and all additions and improvements to the Leased Premises, acquired or constructed by the Authority or the City, which have been approved by ordinance of City Council, which are used in or useful to the functioning of the Leased Premises as a building devoted wholly to public use, as described in the Act and further described in the Original Prime Lease, and which are subject to the Prime Lease and the Costs of which are properly chargeable to plant or property account under Generally Accepted Accounting Principles, including, without limiting the generality of the foregoing, land, easements, rights of way, leaseholds, other interests in real property, replacements of property retired and permanent additions and betterments. Capital Additions shall include the Project.

“Certified Public Accountant” shall mean a Person who shall be Independent, appointed by the City or the Authority, as the case may be, actively engaged in the business of public accounting and duly certified as a certified public accountant under the laws of the Commonwealth.

“Certified Resolution of the Authority” shall mean a copy of one or more resolutions certified by the Secretary or an Assistant Secretary of the Authority, under its seal, to have been duly adopted by the Authority’s Board and to be in effect on the date of such certification.

“Code” shall mean the Internal Revenue Code of 1986, as amended, and with respect to a specific section thereof, such reference shall be deemed to include (i) the regulations promulgated under such section, (ii) any successor provision of similar impact hereinafter enacted, (iii) any corresponding provisions of any subsequent federal internal revenue code and (iv) the regulations prescribed under the provisions described in (ii) and (iii).

“Construction Fund” shall mean the fund or funds so designated which are established pursuant to the Indenture for the payment of Costs.

“Consulting Engineer” shall mean an engineer or architect (or firm or corporation thereof) registered in the Commonwealth, or another state to the extent permitted by law, and qualified to pass upon construction questions, who has been appointed by the City or the Authority, as the case may be, and not unsatisfactory to the other party or the Trustee and who is, in fact, Independent.

“Cost” or “Costs,” in connection with the Project or any other Capital Additions, shall mean all costs, charges and expenses which are properly chargeable thereto or which are incidental to the financing, acquisition and construction of the Project or any other Capital Additions, including, without limiting the generality of the foregoing:

- A. Amounts payable to contractors and costs incident to the award of contracts;

B. Cost of labor, facilities and services furnished by the Authority, the City and their employees or others, materials and supplies purchased by the City or the Authority or others, and permits and licenses obtained by the Authority, the City or others;

C. Engineering, architectural, legal, accounting and other professional and advisory fees;

D. Premiums for contract performance bonds and insurance during construction and costs incurred on account of personal injuries and property damage in the course of construction and insurance against the same;

E. Interest during construction;

F. Administrative Expenses during construction;

G. Printing, engraving, underwriting costs and other expenses of financing;

H. Costs, fees and expenses in connection with the acquisition or rental of real and personal property or rights therein;

I. Costs of equipment purchased by the Authority or the City and necessary to the completion and proper operation of the Project or any other Capital Additions or property in question;

J. Amounts required to repay temporary or bond anticipation loans or advances from other funds of the City made to finance the costs of the Project or any other Capital Additions or required to be paid upon termination of any qualified interest rate management agreement (upon authorization by ordinance of City Council);

K. Cost of prior site improvements, including demolition of buildings, incurred by the City in anticipation of the Project or any other Capital Additions; and

L. Moneys necessary to fund the Funds created under the Indenture or the Prime Lease.

In the case of projects for refunding or redeeming any Bonds, "Cost" or "Costs" includes, without limiting the generality of the foregoing, the items listed in (C) and (G) above, advertising and other expenses related to the redemption of the Bonds to be redeemed and the Redemption Price of such Bonds (and the accrued interest payable on redemption to the extent not otherwise provided for). Whenever Costs are required to be itemized, such itemization shall, to the extent practicable, correspond with the items listed above. Whenever Costs are to be paid such payment may be made by way of reimbursement to the Authority, the City or others who have paid the same.

"Counsel" shall mean an attorney-at-law or law firm (who may be counsel for the City or for the Authority) selected by the Authority.

"Credit Facility" shall mean any letter of credit, line of credit, guaranty or other agreement constituting a credit enhancement or liquidity facility for a series of Bonds.

"Debt Service Requirements on the Bonds" shall mean, with respect to any Fiscal Year, the sum of amounts required to be set aside in such Fiscal Year for payment of interest, at a fixed or a maximum rate specified in the Bonds, on and principal of Bonds under consideration and amounts required to be deposited in such Fiscal Year to the credit of any sinking, purchase, redemption or analogous fund established for such Bonds; provided, however, that "Debt Service Requirements on the Bonds," with respect to any Fiscal Year, for a series of Bonds for which there shall have been established a sinking, purchase, redemption or analogous fund shall be determined after projecting operation of such fund to retirement of Bonds of such

series to the extent that the same shall be required to be retired and giving effect to reduction in interest or principal, as applicable, payments to be made with respect to such Bonds by reason of such retirement.

“Federal Tax Certificate” shall mean the certificate as to compliance with the provisions of the Code executed by the Authority and the City in connection with the issuance of the 2017 Bonds.

“Fiduciary” shall mean the Trustee or any Paying Agent.

“First Supplemental Indenture” means the First Supplemental Indenture dated as of April 1, 2017 between the Authority and the Trustee supplementing the Original Indenture in connection with the issuance of the 2017 Bonds.

“Fiscal Year” shall mean the period of twelve months beginning July 1 of each year.

“Generally Accepted Accounting Principles” shall mean those accounting principles applicable in the preparation of financial statements of municipality authorities as promulgated by the Governmental Accounting Standards Board or such other body recognized as authoritative by the American Institute of Certified Public Accountants or any successor body.

“Government Obligations” shall mean direct noncallable obligations of, or obligations the timely payment of principal of and interest on which when due has been guaranteed by, the United States of America.

“Holder” or “holder” shall mean the Registered Owner of a Bond.

“Independent” shall mean a Person: (a) who is not a member of the Authority’s Board; (b) who is not an officer or employee of the Authority or the City; or (c) which is not a partnership, corporation or association having a partner, director, officer, or member who is a member of the Authority’s Board, or an officer or employee of the Authority or the City; provided, however, that the fact that such Person is retained regularly by or transacts business with the Authority or the City shall not make such Person an employee within the meaning of this definition.

“Interest Payment Date” shall mean with respect to the 2017 Bonds, each April 1 and October 1 commencing October 1, 2017 and, with respect to any other Bonds, the dates designated as such in the Supplemental Indenture pursuant to which such Bonds shall be issued.

“Investment Securities” shall mean and include any of the following securities, if and to the extent the same are at the time legal for investment of Authority funds:

(a) Government Obligations;

(b) direct obligations and fully guaranteed certificates of beneficial interest of the Export-Import Bank of the United States; senior debt obligations of the Federal Home Loan Banks; debentures of the Federal Housing Administration; guaranteed mortgage-backed bonds and guaranteed pass-through obligations of the Government National Mortgage Association; bonds or notes of the U.S. Maritime Administration guaranteed under Title XI of the United States Code; mortgage-backed securities and senior debt obligations of the Federal National Mortgage Association; and participation certificates and senior debt obligations of the Federal Home Loan Mortgage Corporation (collectively, “Agency Obligations”);

(c) direct obligations of any state of the United States of America or any subdivision or agency thereof whose unsecured general obligation debt is rated “A3” or better by Moody’s and “A-” or better by S&P or any obligation fully and unconditionally guaranteed by any state, subdivision or agency whose unsecured general obligation debt is rated “A3” or better by Moody’s and “A-” or better by S&P;

(d) commercial paper rated “Prime-1” by Moody’s and “A-1” or better by S&P;

(e) obligations rated “A3” or better by Moody’s and “A-” or better by S&P;

(f) deposits or bankers acceptances of any domestic bank, including a branch office of a foreign bank which branch office is located in the United States, provided legal opinions are received by the Trustee to the effect that full and timely payment of such deposit or similar obligation is enforceable against the principal office or any branch of such bank, which: (1) has an unsecured, uninsured and unguaranteed obligation rated “Prime-1” or “A3” or better by Moody’s and “A-1” or “A-” or better by S&P, or (2) is the lead bank of a parent bank holding company with an uninsured, unsecured and unguaranteed obligation meeting the rating requirements in (1) above;

(g) deposits of any bank or savings and loan association which has combined capital, surplus and undivided profits of not less than \$3 million, provided such deposits are fully insured by the Federal Deposit Insurance Corporation;

(h) investments in a money-market fund rated “Am” or “Am-G;” or better by S&P;

(i) repurchase agreements collateralized by Government Obligations or Agency Obligations with any registered broker/dealer subject to the Securities Investors’ Protection Corporation jurisdiction or any commercial bank, if such broker/dealer or bank has an uninsured, unsecured and unguaranteed obligation rated “Prime-1” or “A3” or better by Moody’s and “A-1” or “A-” or better by S&P, provided: (1) a master repurchase agreement or specific written repurchase agreement governs the transaction; and (2) the securities are held free and clear of any lien by the Trustee or an independent third party acting solely as agent for the Trustee, and such third party is (a) a Federal Reserve Bank or (b) a bank which is a member of the Federal Deposit Insurance Corporation and which has combined capital, surplus and undivided profits of not less than \$25 million, and the Trustee shall have received written confirmation from such third party that it holds such securities, free and clear of any lien, as agent for the Trustee; and (3) a perfected first security interest under the Uniform Commercial Code, or book entry procedures prescribed at 31 C.F.R. 306.1 et seq. or 31 C.F.R. 350.0 et seq. in such securities is created for the benefit of the Trustee; and (4) the repurchase agreement has a term of 30 days or less, or the Trustee will value the collateral securities no less frequently than every 30 days, and if any deficiency in the required collateral percentage is not restored within two business days of such valuation will liquidate the collateral securities; and (5) if the repurchase agreement is for amounts held in the Bond Fund, the repurchase agreement provides for the payment of amounts invested thereunder at least two days prior to the related debt service payment date; and (6) the fair market value of the securities in relation to the amount of the repurchase obligation, including principal and interest, is equal to at least 100%; and

(j) investment agreements with a bank or insurance company which has an unsecured, uninsured and unguaranteed obligation (or claims-paying ability) rated “A3” or better by Moody’s and “A-3” or better by S&P, or is the lead bank of a parent bank holding company with an uninsured, unsecured and unguaranteed obligation meeting such rating requirements, provided: (1) interest is paid at least semiannually at a fixed rate during the entire term of the agreement, consistent with bond payment dates; (2) moneys invested thereunder may be withdrawn without any penalty, premium, or charge upon not more than one day’s notice (provided, such notice may be amended or cancelled at any time prior to the withdrawal date); (3) the agreement is not subordinated to any other obligations of such insurance company

or bank; (4) the same guaranteed interest rate will be paid on any future deposits made to restore the applicable fund to its required amounts; and (5) the Trustee receives an opinion of counsel that such agreement is an enforceable obligation of such insurance company or bank.

“Opinion of Counsel” shall mean a written opinion of counsel (who may be counsel for the Authority) selected by the Authority.

“Original Indenture” shall mean the Trust Indenture dated as of June 1, 2009 between the Authority and the Trustee, pursuant to which the 2009 Bonds were issued, and which will be supplemented by the First Supplemental Indenture in connection with the issuance of the 2017 Bonds.

“Outstanding” in connection with Bonds, shall mean as of the time in question, all Bonds which have been authenticated and delivered under the Indenture, except: (a) bonds theretofore cancelled or required to be cancelled under the Indenture; (b) bonds for the payment or redemption of which moneys or Government Obligations, the principal of and interest on which when due will provide sufficient moneys to fully pay such Bonds in accordance with the defeasance provisions in Article XII of the Indenture, shall have been or shall concurrently be deposited with the Trustee; provided that, if such Bonds are being redeemed, the required notice of redemption shall have been given or provision satisfactory to the Trustee shall have been made therefor; and (c) bonds in substitution for which other Bonds have been authenticated and delivered pursuant to the Indenture.

“Paying Agent” shall mean any paying agent for the Bonds appointed pursuant to the Indenture, and its successor or successors or other corporation or association which may at any time be substituted in its place pursuant to the Indenture.

“Permitted Encumbrance” shall mean, with respect to the Leased Premises, as of any particular time, (i) the Indenture, the Ground Lease, the Prime Lease, the lease from PAID to the Authority for the Parking Parcel and liens or encumbrances arising therefrom; (ii) liens for ad valorem taxes, special assessments and other governmental charges not then delinquent; (iii) utility, access or other easements and rights-of-way, mineral rights, restrictions and exceptions, all of which will not materially interfere with or impair the operations being conducted on the Leased Premises; (iv) transfers and liens permitted under the Prime Lease; (v) liens or security interests existing on the date of the Prime Lease; and (vi) such minor defects, encroachments, irregularities, easements, rights-of-way and clouds on title as normally exist with respect to properties similar in character to the Leased Premises and do not in the aggregate, in the opinion of Counsel, materially impair the use of the property affected thereby or interfere with its use for the purpose for which it was acquired or is held.

“Person” shall mean an individual, a corporation, a partnership, an association, a joint stock company, a trust, any unincorporated organization, a governmental body, any other political subdivision, municipality or municipality authority or any other group or entity.

“Pledged Revenues” shall mean the revenues received or receivable by the Authority from the City or any other Persons pursuant to the Prime Lease (except the Administrative Expenses and the sums payable in connection with the Authority’s rights with respect to indemnity), and any and all amounts payable to the Authority on account of the Leased Premises and all funds and income and receipts on the funds held by the Trustee under the Indenture.

“Principal Office,” when used with respect to a Fiduciary, shall mean the principal, or principal corporate trust, or head or principal trust, office of such Fiduciary or, when used with respect to the payment or registration of transfer or exchange of Bonds, shall refer to the office of such Fiduciary designated by the Fiduciary to the Authority and the City for such purpose.

“Project” means the project previously undertaken by the Authority in cooperation with the City consisting of: (a) the design, construction and equipping of a juvenile justice center, including detention, judicial, correctional, educational and other related facilities, and parking improvements (the “Juvenile Justice Center Facility”) located on approximately five acres of real estate known as 91 North 48<sup>th</sup> Street, Philadelphia, PA, described in the Original Prime Lease (the “Property” and together with the Juvenile Justice Center Facility, the “Leased Premises”) and a tract of land leased by the Philadelphia Authority for Industrial Development (“PAID”) to the Authority and subsequently incorporated in the Leased Premises pursuant to the 2014 Prime Lease Amendment; (b) the paying of costs of issuance for the 2009 Bonds; (c) the ground leasing of certain parcels of land by the City to the Authority; (d) the ground leasing of a certain tract of land (the “Parking Parcel”) in the vicinity of the Property for on-site parking for the Juvenile Justice Center Facility from PAID to the Authority; and (e) the leasing of the Leased Premises by the Authority to the City.

“Qualified Majority of the Registered Owners” shall mean an amount of Registered Owners aggregating a majority or greater in principal of the Bonds then Outstanding.

“Record Date” shall mean the fifteenth day of the month (whether or not a Business Day) preceding the month in which an Interest Payment Date occurs.

“Redemption Price,” where used with respect to a Bond, shall mean the principal amount of such Bond plus the applicable premium, if any, payable upon redemption thereof pursuant to the Indenture.

“Registered Owner” or “Owner,” in connection with a Bond, shall mean the person or persons in whose name or names the Bond shall be registered on the books of the Authority wherever kept for that purpose in accordance with the Indenture and the Bonds.

“Regulatory Body” shall mean and include (a) the United States of America and any department of or corporation, agency or instrumentality heretofore or hereafter created, designated or established by the United States of America, (b) the Commonwealth, any political subdivision thereof and any department of or corporation, agency or instrumentality heretofore or hereafter created, designated or established by the Commonwealth and (c) any other public or private body, whether federal, state, local or otherwise having or exercising regulatory jurisdiction and authority over the Leased Premises, but shall not include the Authority.

“Sinking Fund Account” or “Sinking Fund Accounts” shall mean one or more of the accounts so designated within the Bond Fund pursuant to the Indenture.

“Sinking Fund Installment Date” shall mean April 1 of the years in which the Trustee is required to pay at maturity or redeem, as applicable, Bonds of any series from the Sinking Fund Account or Accounts of the Bond Fund established for such series pursuant to the Indenture.

“Special Account” shall mean the special account in the Bond Fund to be utilized by the Trustee to pay principal or Redemption Price of and interest on the Bonds or shall be applied in an indenture supplemental thereto.

“Supplemental Indenture” or “indenture supplemental thereto” shall mean any indenture amending or supplementing the Indenture which may be entered into in accordance with the provisions of the Indenture.

“Supplemental Prime Lease” shall mean any lease amending or supplementing the Prime Lease which may be entered into in accordance with the Prime Lease.

## **THE INDENTURE**

### **Trust Estate**

The Authority, in order to secure the payment of the principal or Redemption Price of, and interest on, all Bonds issued and Outstanding under the Indenture, assigns and pledges to the Trustee and grants to the Trustee a security interest in, assignment and pledge of, and a continuing lien on, each and all of the following: (A) all of the right, title and interest of the Authority in and to the Prime Lease (except for the Authority's rights with respect to indemnity and the Authority's Administrative Expenses thereunder and the Authority's obligations thereunder, which can only be performed by it), (B) the Pledged Revenues and (C) all moneys and securities from time to time held by the Trustee under the terms of the Indenture, subject to the terms thereof.

### **Additional Bonds**

The Authority may issue one or more series of Additional Bonds from time to time pursuant to a Supplemental Indenture (a) to pay the Cost of Capital Additions or to reimburse expenditures of the Authority or the City for any such Costs and (b) to pay the Costs of refunding through redemption all or any portion of the Outstanding Bonds.

In any such event, the Trustee shall, at the request of the Authority, authenticate the Additional Bonds and deliver them as specified in the request, but only upon receipt of: (1) a Certified Resolution of the Authority (a) stating the purpose of the issue; and (b) establishing the series of Additional Bonds to be issued and providing the terms and form of Additional Bonds thereof and directing the payments to be made into the funds and accounts in respect thereof; and (c) authorizing the execution and delivery of the Additional Bonds to be issued; and (d) if the purpose is refunding, authorizing the purchase or redemption of the Bonds to be refunded; (2) a certificate of the Authority stating (a) the purpose of the issue; (b) any other amounts available for the purpose; (c) that except with respect to the completion of a Capital Addition or a refunding, no Event of Default under the Indenture has occurred and is continuing; and (d) that the proceeds of the issue plus the other amounts, if any, stated to be available for the purpose will be sufficient to pay the Costs thereof, which shall be itemized in reasonable detail; or (e) if the purpose is refunding, that notice of redemption of the Bonds to be refunded has been duly given or that provision has been made therefor; (f) the Debt Service Requirements on all Bonds to be Outstanding after the issuance for each Fiscal Year until maturity of the last of such Bonds; and (g) the rentals and additional rentals, if any, to be paid by the City or other lessee of the Leased Premises under the Prime Lease will be adequate to satisfy in each Fiscal Year the Debt Service Requirements on the Bonds to remain Outstanding during the remaining life thereof and to provide for deficiencies existing on the date of such certification in any funds required to be maintained under the Indenture; (3) a Supplemental Prime Lease, if necessary, providing for additional rentals under the Prime Lease sufficient to pay the Debt Service Requirements on the Additional Bonds; (4) a certified ordinance of the City (a) approving the issuance of the Additional Bonds and the terms thereof if not otherwise approved; and (b) authorizing the execution of any required Supplemental Prime Lease; (5) the proceeds of the sale of the Additional Bonds; and (6) an Opinion of Counsel that the Additional Bonds are duly authorized and issued thereunder and all requirements of the Indenture for the issuance of such Additional Bonds have been met.

If a Supplemental Prime Lease is required for the issuance of Additional Bonds, the City and the Authority shall execute such Supplemental Prime Lease. Notwithstanding satisfaction of other conditions to the issuance of Additional Bonds contained in the Indenture, no such issuance may occur should any Event of Default have occurred and be continuing unless such default shall be cured upon such issuance.



## **Construction Fund**

The Trustee has previously established a Construction Fund for the payment of Costs of the Project and costs of issuance. No deposit will be made into the Construction Fund from the proceeds of the 2017 Bonds.

## **Bond Fund; Application of Bond Fund**

The Trustee has previously established the Bond Fund and, within such Fund, shall establish four separate accounts therein, respectively, an Interest Account, a Special Account, a Bond Redemption Account and a Sinking Fund Account for the 2017 Bonds.

The Trustee shall deposit the Pledged Revenues and any other payments under the Indenture (except proceeds of Additional Bonds) in the Bond Fund unless otherwise provided in the Indenture or in a Supplemental Indenture. While any Bonds are Outstanding, moneys in the Bond Fund will be used solely for the payment of principal or Redemption Price of and interest on the Bonds as the same shall become due and payable upon an Interest Payment Date, at maturity, upon redemption or otherwise.

Funds for the payment of the principal or Redemption Price of and interest on the Bonds shall be derived from the following sources in the order of priority indicated: (1) moneys paid into the Interest Account of the Bond Fund for interest pursuant to the Indenture and moneys transferred from the Capitalized Interest Account of the Construction Fund for payment of interest shall be applied to the payment of interest next due on the Bonds; (2) moneys deposited upon the completion of any Capital Additions into the Special Account, and any income or other gain from the investment thereof; and (3) any other moneys furnished by the Authority to the Trustee, including moneys received by the Trustee pursuant to the Prime Lease.

Moneys transferred from the Construction Fund into the Special Account upon completion of any Capital Addition, and any income or other gain from the investment thereof, shall be held in trust for and applied by the Trustee to the redemption of the 2009 Bonds on the next due date. Moneys deposited into the Special Account upon the completion of any other Capital Addition for which Additional Bonds were issued shall be applied as set forth in a Supplemental Indenture.

The Trustee shall establish as a part of the Bond Fund a Sinking Fund Account for each series of Bonds as may be directed in the Certified Resolution of the Authority or Supplemental Indenture establishing such series and shall transfer funds into such sinking fund accounts from the Bond Fund as required to pay the principal of Bonds when due and to redeem Bonds on the dates specified in the Indenture or in the form of the Bond. The Trustee shall use the Sinking Fund Account for each series of Bonds to purchase or redeem the Bonds of such series. If, at any time, all the Bonds of any series shall have been purchased, redeemed or paid, the Trustee shall make no further transfers to the Sinking Fund Account for such series and shall transfer any balance then in such account to the Interest Account of the Bond Fund. Whenever Bonds are to be purchased out of any Sinking Fund Account, if the Authority, upon the direction of the City, shall notify the Trustee that the Authority wishes to arrange for such purchase, the Trustee shall comply with the Authority's arrangements provided they conform to the Indenture.

## **Security for and Investment or Deposit of Funds**

All moneys received by the Trustee under the Indenture for deposit in any Fund or Account established thereunder shall be considered trust funds, shall not be subject to lien or attachment and shall, except as otherwise provided in the Indenture, be deposited in the commercial department of the Trustee, until or unless invested or deposited as provided in the Indenture. All deposits in the commercial

department of the Trustee shall, to the extent not fully insured, be fully secured as to principal by the securities listed in subsections (a), (b) and (c) of the definition of Investment Securities. If at any time the commercial department of the Trustee is unwilling to accept such deposits or unable to secure them as provided above, the Trustee may deposit such moneys with any other depository which is authorized to receive them and the deposits of which are insured by the Federal Deposit Insurance Corporation. All deposits in any other depository in excess of the amount covered by insurance shall, to the extent permitted by law, be fully secured as to principal by the securities listed in subsections (a), (b) and (c) of the definition of Investment Securities. Such security shall be deposited with a Federal Reserve Bank, with the trust department of the Trustee as authorized by law with respect to trust funds in the Commonwealth, or with a bank or trust company having a combined net capital and surplus of not less than \$100,000,000.

The Trustee shall, at the written direction of the Authority, as specifically directed in writing by the City, invest moneys held in the Construction Fund and in all other Funds and Accounts in moneys and Investment Securities. All such investments made shall mature or be subject to redemption by the holder at not less than the principal amount thereof or the cost of acquisition, whichever is lower, and all deposits in time accounts shall be subject to withdrawal and without penalty not later than the date when the amounts will foreseeably be needed for purposes of the Indenture. Except during the period of construction of any Capital Addition, the interest and income received upon such investments and any interest paid by the Trustee or any other depository with respect to moneys in any Fund or Account established under the Indenture and any profit (net of losses) resulting from the sale of securities shall be added or charged to the respective Fund or Account established under the Indenture; subject, however, to the provisions of the Indenture in the case of defeasance. Interest and income received during the period of construction of any Capital Addition shall be treated in accordance with the Certified Resolution or Supplemental Indenture authorizing Additional Bonds for such Capital Addition. Upon written request of the Authority or on its own initiative whenever payment is to be made out of the Bond Fund to pay principal of and interest on the Bonds, the Trustee shall sell such securities as may be requested or required to make the payment and restore the proceeds to the Fund in which the securities were held. Neither the Trustee nor the Authority shall be accountable for any depreciation in the value of any such security or for any loss resulting from the sale thereof. The Authority shall receive written direction under this provision of the Indenture from the City from the Director of Finance of the City.

### **Covenants of the Authority**

#### **Payment of Principal or Redemption Price of and Interest on Bonds.**

The Authority shall promptly pay the interest on, and the principal or Redemption Price of, every Bond issued under the Indenture according to the terms thereof, but shall be required to make such payment only out of its Pledged Revenues and the moneys and securities held in the Funds and Accounts under the Indenture. The Authority shall appoint one or more Paying Agent for such purpose, each such agent to be a bank and trust company or a trust company or a national banking association having trust powers. The Authority appoints the Trustee to act as Paying Agent and designates the Principal Office of such agent as the place of payment, such appointment and designation to remain in effect until notice of change is filed with the Trustee.

#### **Corporate Existence and Maintenance of Properties.**

The Authority shall maintain its corporate existence and its right to own, operate or lease the Leased Premises and shall provide for (a) construction or acquisition of Capital Additions in accordance with the provisions of the Indenture and the Prime Lease and performance of all repairs, renewals, replacements and improvements to the Leased Premises or such Capital Additions necessary to maintain

adequate service; and (b) compliance with all valid and applicable laws, acts, rules, regulations, permits, orders, requirements and directions of any competent Regulatory Body.

#### Leasing, Etc. of the Leased Premises.

The Authority may lease the Leased Premises or any portions thereof to, or enter into operating agreements in respect thereof with, third parties lawfully entitled to enter into such leases or agreements, but the Authority covenants that any such lease or agreement shall be subject to, and shall not contain terms inconsistent with, the Indenture and shall be approved by the Trustee. The Authority agrees that, except for the assignment of the Prime Lease to the Trustee pursuant to the Indenture, it will not assign or otherwise encumber the Prime Lease or any payments due thereunder.

#### Enforcement, Execution and Amendment of the Prime Lease and Other Contracts; Notice of Default.

The Authority shall cause any Capital Addition to be constructed and installed in accordance with the terms of the Prime Lease and the Indenture and shall enforce payment of service charges, rentals and other amounts payable under the Prime Lease or any Supplemental Prime Lease, and any other lease, agreement or other contract executed and made subject to the lien and security interest created by the Indenture, and shall otherwise enforce all of its rights and privileges, and honor all of its obligations, thereunder, and shall require every party with which it so contracts to perform its contractual obligations. So long as no Event of Default under the Indenture shall have occurred and be continuing, the Authority may exercise all its rights under the Prime Lease or any other lease, sublease, agreement or contract, or supplement or amendment thereto, but the Authority shall not, without the consent of the Trustee, amend any of the same so as to affect adversely the Authority's ability to perform its covenants under the Indenture. The Authority shall file with the Trustee copies of the Ground Lease, the Prime Lease and all other leases, agreements and contracts, together with all amendments or supplements thereto, whether or not the Trustee's consent is required thereto, and shall give prompt notice to the Trustee of any default by any of the parties thereto except defaults of minor importance to the interests of the Authority therein.

#### Property Insurance.

So long as the Leased Premises are subject to the terms of the Prime Lease, the City may act as self insurer and the Authority need not obtain property insurance; otherwise, the Authority shall keep the Leased Premises, or cause the same to be kept, insured by one or more insurance companies authorized and qualified to do business under the laws of the Commonwealth against such risks as are normally insured against; provided that the amounts of such insurance shall be sufficient to prevent diminution of recovery for any loss thereunder by reason of any co-insurance clause in the policies therefor.

Each policy of insurance, if any, applicable to the Leased Premises may contain a loss deductible clause specifying such sum as the Authority may determine as the sum to be deducted from coverage for the amount of loss resulting from particular perils. All insurance policies, other than workers' compensation insurance, shall be non-assessable and shall be written in the names of the Trustee and the Authority (and, where appropriate, the lessee or similarly interested party), as their interests may appear and shall be made payable to the Trustee, which shall have the sole right to receive the proceeds of such policies and to collect and receipt for claims thereunder. So far as the same may be procurable without the payment of additional premiums, the policies for such insurance shall not be cancellable without at least 30 days' written notice to the Trustee and shall provide that all losses thereunder shall be payable to the Trustee notwithstanding any act or neglect of the Authority which might otherwise result in a forfeiture of such insurance. Any insurance proceeds shall be held by the Trustee as security for all Bonds then Outstanding until paid out as provided in the Indenture.

Any appraisal, adjustment or settlement agreed upon among the Authority, any insurer and the City which is evidenced (if the amount is \$500,000 or less) by a certificate of the Authority and the City or (if the amount exceeds \$500,000) by a Certified Resolution of the Authority and the City and approved by the Consulting Engineer shall be accepted by the Trustee.

#### Application of Proceeds of Property Insurance and Condemnation Awards.

In the event of any damage to the Leased Premises covered by insurance or condemnation of any portion of the Leased Premises, the Authority shall promptly notify the Trustee in writing of such event. The proceeds of property insurance and condemnation awards shall be applied in accordance with the Prime Lease. If the insurance proceeds or condemnation awards are insufficient to pay the Cost of repair, reconstruction or replacement, the deficiency shall be supplied at the request of the Authority out of funds payable by the City.

If any insurance proceeds or condemnation proceeds are not so applied as set forth in the Prime Lease within 12 months after receipt by the Trustee or the City, or if the Authority fails to file or cause to be filed the required certificate with respect to any damage to the Leased Premises within three months after the occurrence of the condemnation, injury or damage, or if the certificate which is filed states that the repair, reconstruction or replacement is not practical or desirable, the insurance proceeds or condemnation awards shall be deposited in the Bond Fund to be applied as set forth in the Prime Lease.

#### Public Liability Insurance.

The Authority will carry public liability insurance in such amounts and in such manner as set forth in the Prime Lease or, if the Prime Lease has been terminated, as customary in similar operations.

#### Sale, Lease or Encumbrance of Facilities Prohibited; Exceptions.

The Authority shall not and shall not permit the City to sell, lease, pledge or otherwise transfer or encumber the Leased Premises or any part thereof, or any revenues derived therefrom other than as stated in the Ground Lease, Prime Lease or the Indenture; but the Authority shall permit the City to sell property which has been replaced, or is no longer necessary in the ordinary course of operations.

Upon receipt of any documents as required under the Prime Lease and any amounts required to be deposited in any fund, the Trustee may execute such consents or releases to any sale or encumbrance permitted hereby as may be appropriate.

#### Payment of Taxes; Discharge of Liens.

The Authority shall pay, or cause to be paid, all taxes, assessments or other municipal or governmental charges lawfully imposed upon the Authority or the Leased Premises or any revenues therefrom and will not suffer to be created or to exist any lien or charge thereon except the lien and charge of the Bonds and encumbrances permitted under the Indenture.

#### Annual Reports and Statements.

The Authority shall furnish to the Trustee and the City (and to Bondholders upon written request) within 35 days after receipt a report with respect to the operations of the Authority for the Project for each Fiscal Year. Such annual report shall be audited and certified by the Certified Public Accountant and shall contain a report in respect of the application by the Trustee of the moneys received by it pursuant to the provisions of the Indenture.

#### Financing Statements and Other Action to Protect Security Interests.

The Authority shall cause the Indenture or a financing statement or memorandum relating thereto to be filed, registered and recorded in such manner and at such places as may be required by law to protect fully the security of the holders of the Bonds and the right, title and interest of the Trustee in and to the Trust Estate or any part thereof to the extent permitted by law. From time to time, as reasonably requested by the Trustee, the Authority shall obtain an Opinion of Counsel and furnish a signed copy thereof to the Trustee, setting forth what, if any, actions by the Authority or Trustee should be taken to preserve such security. The Authority shall perform any such acts and execute any and all further instruments as may be required by law or as shall reasonably be requested by the Trustee for such protection of the interests of the Trustee and the Bondholders, and shall furnish satisfactory evidence to the Trustee of recording, registering, filing and refile of such instrument and of every additional instrument which shall be necessary to preserve the lien of the Indenture upon the Trust Estate or any part thereof until principal of and interest on the Bonds secured thereby shall have been paid. The Trustee shall execute and file any such further or additional instrument and file as it may be advised by an Opinion of Counsel will preserve the lien of the Indenture upon the Trust Estate or any part thereof until the aforesaid principal shall have been paid.

#### Further Assurances; Additional Revenue.

The Authority shall not enter into any contract or take any action by which the rights of the Trustee or the Bondholders may be impaired and shall, from time to time, execute and deliver such further instruments and take such further action as may be required to carry out the purposes of the Indenture. If at any time the Authority receives any income or payment from or in respect of the Leased Premises which is not assigned to the Trustee, exclusive of the Administrative Expenses, it shall promptly pay the same to the Trustee for deposit in the Bond Fund and, at the request of the Trustee, shall execute and deliver an assignment of its right, title and interest in and to future income or payments of the same type to the Trustee to be held as part of Pledged Revenues and file or record such assignment as may be appropriate to perfect the security interest created thereby.

#### Compliance with Code Concerning 2017 Bonds.

The Authority covenants to the Owners of the 2017 Bonds that it will make no investment or other use of the proceeds of the 2017 Bonds, or otherwise take or omit taking any action, which would cause such Bonds to be “arbitrage bonds” as that term is defined in section 148(a) of the Code, and that it will continually comply with all other provisions of the Code required to maintain the exclusion of the interest on the 2017 Bonds from gross income throughout the term of the 2017 Bonds.

In furtherance of the foregoing tax covenants, the Authority covenants that it will comply with the provisions of its Federal Tax Certificate relating to the 2017 Bonds. These covenants shall survive payment in full or defeasance of the 2017 Bonds.

#### Payment to the City.

After payment of all Bonds Outstanding or defeasance under the Indenture and all other obligations thereunder, the Authority shall cause the Trustee to pay to the City all moneys and investments held by the Trustee pursuant to the Indenture not required to pay the Debt Service Requirements on the Bonds.

#### **Events of Defaults and Remedies**

Each of the following events will constitute an “Event of Default” under the Indenture:

(a) If payment of any installment of interest on the Bonds is not made by the Authority when it becomes due and payable; or

(b) If payment of the principal or Redemption Price of any Bond by the Authority is not made when it becomes due and payable at maturity or upon call for redemption or if any required transfer is not made into any sinking fund or sinking fund account established under the Indenture at the time and in the amounts required; or

(c) If an “Event of Default” with respect to rental payments occurs and is continuing under the Prime Lease, except rental payments due the Authority for Administrative Expenses; or

(d) If an “Event of Default” occurs and is continuing under the Prime Lease, other than the failure of the City to make rental payments, or a default occurs and is continuing in the payment of the rentals or other payments under any other lease or operating agreement or any amendment or supplement thereto relating to the Leased Premises or any other default occurs and is continuing thereunder which would give the Authority the right to terminate such lease or agreement; or

(e) If the Authority fails to comply with any provision of the Act or for any reason is rendered incapable of fulfilling its obligations hereunder or thereunder; or

(f) If the Authority defaults in the due and punctual performance of any other covenant in the Bonds or in the Indenture and such default continues for 45 days after written notice requiring the same to be remedied shall have been given to the Authority and the City by the Trustee, which may give such notice in its discretion and shall give such notice at the written request of the Holders of not less than 25% in principal amount of the Bonds then Outstanding; provided, however, that if such performance requires work to be done, actions to be taken or conditions to be remedied, which by their nature cannot reasonably be done, taken or remedied, as the case may be, within such 45-day period, no Event of Default shall be deemed to have occurred or to exist if, and so long as, the Authority shall commence or cause the City to commence such performance within such 45-day period, and the Authority or the City shall diligently and continuously prosecute the same to completion; or

(g) If the Authority files or has filed against it a petition of bankruptcy or for arrangement or for reorganization pursuant to the United States Bankruptcy Code or other similar laws, federal or state, or if, by the decree of a court of competent jurisdiction, the Authority is adjudicated bankrupt or declared insolvent, or makes an assignment for the benefit of creditors, or admits in writing its inability to pay its debts generally when or as they become due, or consents to the appointment of a trustee, receiver or liquidator of all or any part of the Leased Premises; provided that, if any such proceeding is commenced by a person other than the Authority, there will be no Event of Default if such proceedings are dismissed within 90 days of the filing of initial pleadings therein.

Any default by the Authority under the Indenture shall not result in the termination of the Prime Lease, so long as the City shall continue to perform all of its obligations under the Prime Lease and the failure to act on behalf of the Trustee will not affect the tax-exempt status of the Bonds or affect any priority rights in any legal proceeding or prejudice any other rights the Trustee may have against the Authority.

Except as to Events of Default paragraphs (a), (b) and (c) above, the Trustee shall not be required to take notice or be deemed to have knowledge of any Event of Default under the Indenture unless and until specifically notified in writing of such Event of Default by the Authority or by Registered Owners of at least 25% in aggregate principal amount of the Bonds then Outstanding.

If any Event of Default described above has occurred and is continuing, the Trustee by notice in writing to the Authority may, and upon written request of a Qualified Majority of the Registered Owners shall, declare the principal of all Bonds then Outstanding to be immediately due and payable. Upon such declaration, the principal of the Bonds then Outstanding, together with interest accrued thereon, shall become due and payable immediately.

If after the principal of the Bonds has been so declared to be due and payable, all arrears of interest upon the Bonds are paid by the Authority, and the Authority also performs all other things in respect to which it may have been in default under the Indenture and pays the reasonable charges of the Trustee, the Bondholders and any trustee appointed under the Act, including reasonable attorney's fees, then, and in every such case, a Qualified Majority of the Registered Owners may annul such declaration and its consequences and such annulment shall be binding upon the Trustee and upon all Registered Owners of Bonds issued under the Indenture; but no such annulment shall extend to or affect any subsequent default or impair any right or remedy consequent thereon.

If an Event of Default has occurred and is continuing, the Trustee, in its discretion, may, and upon the written request of a Qualified Majority of the Registered Owners, and upon receipt of indemnity to the Trustee's satisfaction, shall, in its own name bring legal proceedings to enforce the rights of the Bondholders. In addition, a Qualified Majority of the Registered Owners, after furnishing indemnity satisfactory to the Trustee, shall have the right to direct the method and place in the Commonwealth of conducting all remedial proceedings by the Trustee under the Indenture, provided such directions shall not be otherwise than in accordance with law or the provisions of the Indenture, and that the Trustee shall have the right to decline to follow any such direction which in the opinion of the Trustee would be unjustly prejudicial to the Registered Owners not parties to such direction.

No Bondholder shall have any right to pursue any remedy under the Indenture unless (a) the Trustee shall have been given written notice of an Event of Default, (b) a Qualified Majority of the Registered Owners shall have requested the Trustee, in writing, to exercise the powers therein granted or to pursue such remedy in its or their name or names, (c) the Trustee shall have been offered indemnity satisfactory to it against costs, expenses and liabilities and (d) the Trustee shall have failed to comply with such request within a reasonable time.

Any moneys received by the Trustee in connection with an Event of Default under the Indenture after payment of the cost and expenses of the proceedings resulting in the collection of such moneys and of the fees due, expenses, liabilities and advances incurred or made by the Trustee, be deposited in the Bond Fund and thereupon all moneys then in the Bond Fund shall be applied as follows:

(a) Unless the principal of all the Bonds shall have become or shall have been declared due and payable, all such moneys shall be applied:

First – To the payment to the persons entitled thereto of all installments of interest then due on the Bonds, in order of the maturity of the installments of such interest and, if the amount available shall not be sufficient to pay in full any particular installment, then to the payment ratably, according to the amounts due on such installment, to the persons entitled thereto, without any discrimination or privilege; and

Second – To the payment to the persons entitled thereto of the unpaid principal of any of the Bonds which shall have become due (other than Bonds called for redemption or purchase for the payment of which moneys are held pursuant to the provisions of the Indenture), in the order of their due dates, with interest on such Bonds from the respective dates on which they became due and, if the amount available shall not be sufficient to pay

in full the Bonds due on any particular date, together with such interest, then to the payment ratably, according to the amount of principal due on such date, to the persons entitled thereto without any discrimination or privilege.

(b) If the principal of all the Bonds shall have become due or shall have been declared due and payable, all such moneys shall be applied to the payment of the principal and interest then due and unpaid on the Bonds, without preference or priority of principal over interest or of interest over principal, or of any installment of interest over any other installment of interest, or of any Bond over any other Bond, ratably, according to the amounts due respectively for principal and interest, to the persons entitled thereto without any discrimination or privilege.

Whenever all principal of and interest on all Bonds have been paid under the provisions of the Indenture relating to application of moneys in the Event of Default, and all expenses and charges of the Trustee have been paid, any balance remaining in the Bond Fund shall be paid to the City.

### **Rights and Obligations of the Trustee and the Paying Agent**

The Trustee may execute any powers under the Indenture and perform any duties required of it through attorneys, agents, architects, engineers and other experts, officers, or employees, selected by it, and the written advice of such counsel, architects, engineers or other experts shall be full and complete authorization and protection in respect of any action taken, suffered or omitted by it under the Indenture in good faith and in reliance thereon. The Trustee shall not be answerable for the default or misconduct of any attorney, agent, architect, engineer, expert or officer or employee selected by it with reasonable care. The Trustee shall not be answerable for the exercise of any discretion or power under the Indenture nor for anything whatever in connection with the trust hereunder, except only its own willful misconduct or negligence. The Trustee has no duty to effect or renew any insurance policy and shall not incur any liability for the failure of the Authority to require or effect or review insurance or to report or file claims of losses thereunder.

The Trustee shall, within 90 days after the Trustee has notice of an occurrence of an Event of Default, give written notice by first class mail to all Bondholders of all defaults known to the Trustee, unless such defaults have been remedied; provided that, except in the case of a default in payment of principal or interest, the Trustee may withhold such notice to the Bondholders so long as it in good faith determines that such withholding is in the interest of the Bondholders. The Trustee may, at any time, require of the Authority full information as to the performance of any covenant under the Indenture, and if information satisfactory to it is not forthcoming, the Trustee may make, at the expense of the Authority, an investigation into the affairs of the Authority related to the Indenture and the Leased Premises. The Trustee shall be under no obligation to take any action in respect of any default or Event of Default or otherwise unless it has received a written request from a Qualified Majority of the Registered Owners and, if in its opinion such action may tend to involve expense or liability, unless it is also furnished with indemnity satisfactory to it.

The Trustee may act on any requisition, resolution, etc. which it in good faith believes to be genuine and to have been passed or signed by the proper persons, and the Trustee has no duty to make any investigation as to any statement contained in any such instrument, but may accept the same as conclusive evidence of the accuracy of such statement in the absence of actual notice to the contrary. The Trustee shall not be bound to make any investigation into the facts or matters stated in any financial or other statements, resolution, etc. furnished pursuant to the Indenture, but the Trustee, in its discretion, may make such further inquiry or investigation into such facts or matters as it may see fit, and, if the Trustee shall determine to make such further enquiry or investigation, it shall be entitled to examine the books, records and premises of the Authority.



The Trustee may in good faith buy, sell, own, hold and deal in any of the Bonds and may join in any action to which any Bondholders may be entitled with like effect as if the Trustee were not a party to the Indenture. The Trustee may also engage in any financial or other transaction with the Authority, provided that if the Trustee determines that any such relation is in conflict with its duties under the Indenture, it shall eliminate the conflict or resign as Trustee.

The Trustee may resign and be discharged of the trusts created by the Indenture by written resignation filed with the Authority and the City not less than 60 days before the date when such resignation is to take effect; provided notice of such resignation is mailed to each Bondholder and to Moody's and S&P not less than three weeks prior to the date when the resignation is to take effect. Such notice shall appoint a successor, or the Trustee may petition the court to appoint a successor. Any Trustee may be removed at any time by an instrument appointing a successor to the Trustee so removed, executed by the Registered Owners of a majority in principal amount of the Bonds then Outstanding or by the Authority and filed with the Trustee and the Authority. If the Trustee or any successor trustee resigns or is removed or dissolved, or if its property or business is taken under the control of any state or federal court or administrative body, the Authority shall appoint a successor and shall promptly mail notice of such appointment to each Bondholder and Moody's and S&P. If the Authority fails to make such appointment within 30 days, the Registered Owners of a majority in principal amount of the Bonds then Outstanding may do so. A successor trustee shall be a national bank with trust powers or a commercial bank or a bank and trust company or a trust company having capital and surplus of at least \$100,000,000.

The Trustee is appointed as Paying Agent. Any Paying Agent may at any time resign and be discharged of the duties and obligations created by the Indenture by giving at least 60 days' written notice to the Authority, the City and the Trustee. Any Paying Agent may be removed at any time by the Authority by filing an instrument with such Paying Agent, the Trustee and the City. Any successor paying agent shall be appointed by the Authority, with the approval of the Trustee and the City, and shall be a commercial bank or trust company duly organized under the laws of any state of the United States or a national banking association, having a capital stock and surplus aggregating not less than \$100,000,000 and be willing and able to accept the office on reasonable and customary terms and authorized by law to perform all the duties imposed on it by the Indenture.

### **Acts of Bondholders**

Any action to be taken by Registered Owners may be evidenced by one or more concurrent written instruments signed by such Registered Owners in person or by an agent appointed in writing. The fact and date of the execution by any person of any such instrument may be proved by acknowledgment before a notary public or other officer empowered to take acknowledgments or by an affidavit of a witness to such execution. Any action by the Owner of any Bond shall bind all future Registered Owners of the same Bond in respect of anything done or suffered by the Authority or the Trustee pursuant thereto.

### **Amendments and Supplements of the Indenture**

The Authority and the Trustee may, without the consent of, or notice to, any of the owners of the Bonds, enter into a Supplemental Indenture for any one or more of the following purposes: (a) to set forth any or all of the matters in connection with the issuance of Additional Bonds under the Indenture; (b) to add additional covenants of the Authority or to surrender any right or power conferred upon by the Authority; (c) to reflect changes in applicable law or to cure any ambiguity or to correct or supplement any defective or inconsistent provision of the Indenture in such manner as will not be inconsistent with the Indenture and shall not impair the security thereof or adversely affect the interests of the Bondholders; (d) to preserve the exemption from federal income tax of interest on the Bonds, provided such amendment or supplement would not affect less than all of the Bonds; (e) to obtain, maintain or improve any securities rating of the

Bonds by Moody's, S&P or Fitch; and (f) to amend or supplement the Indenture in any other manner, provided that such modification, amendment or supplement does not materially adversely affect the rights of the Bondholders.

The Indenture may be amended from time to time, except with respect to (1) the interest on and principal payable upon any Bonds, (2) the dates of maturity or sinking fund installments, the redemption provisions or the security for the Bonds and (3) the provisions regarding amendments and supplements, by a Supplemental Indenture approved by a Qualified Majority of the Registered Owners; provided, that no amendment shall be made which adversely affects one or more but less than all series of Bonds without the consent of a Qualified Majority of the Registered Owners of each series so affected, and no amendment shall be made which affects the rights of the holders of some but less than all the Outstanding Bonds of any one series without the consent of a Qualified Majority of the Registered Owners so affected. Amendments with respect to items (1), (2) and (3) above shall be effected only with the consent of all of the Registered Owners of all of such series of Bonds then Outstanding and so affected by such amendments. For purposes of this paragraph, the Bonds Outstanding shall not include Bonds held by the City or the Authority.

### **Amendments of the Prime Lease**

If the Authority and the City propose to amend the Prime Lease in such a way as would adversely affect the interests of Bondholders, such amendment shall require the consent of the Trustee, and the Trustee shall notify the Bondholders of the proposed amendment and may consent thereto with the consent of a Qualified Majority of the Registered Owners which would be affected by the action proposed to be taken; provided, that the Trustee shall not, without the unanimous consent of the holders of all Bonds then Outstanding, consent to any amendment which would (1) decrease the amounts payable on the Prime Lease, (2) change the dates of payment or change any of the prepayment provisions of the Prime Lease or (3) change certain sections of the Prime Lease regarding rental payments, termination of the Prime Lease, events of default and indemnification of the Authority.

### **Defeasance**

#### Discharge of Lien.

If the Authority shall pay or cause to be paid, or there shall otherwise be paid, to the Registered Owners of all Outstanding Bonds the principal or Redemption Price of and interest due or to become due thereon at the times and in the manner stipulated therein and in the Indenture, and if the Authority shall keep, perform and observe all the covenants and promises in the Bonds and in the Indenture expressed as to be kept, performed and observed by it or on its part and shall have paid or provided for all obligations owed the Trustee, then the pledge of the Trust Estate under the Indenture and the rights granted by the Indenture and all covenants, agreements and other obligations of the Authority under the Indenture to the Bondholders shall thereupon cease, terminate, and become void and be discharged and satisfied. In such event, the Trustee shall cancel and discharge the lien of the Indenture and execute and deliver to the Authority all such instruments as may be appropriate to evidence such discharge and satisfaction of the lien hereof, and the Trustee and the Paying Agent shall pay over or deliver to the Authority all moneys and securities held by them pursuant to the Indenture which are not required for the payment of principal of and interest on Bonds not theretofore surrendered for such payment or redemption.

Any Bond shall be deemed to be paid within the meaning of the defeasance provision of the Indenture and for all purposes of the Indenture when the following shall have occurred: (1) payment of the principal or Redemption Price of such Bond, plus interest thereon to the due date thereof (whether such due date is by reason of maturity or upon redemption as provided herein) either (a) shall have been made or caused to be made in accordance with the terms thereof, or (b) shall have been provided for by irrevocably depositing with the Trustee in trust and irrevocably setting aside exclusively for such payment moneys

sufficient to make such payment and/or Government Obligations maturing as to principal and interest in such amount and at such time as will ensure the availability of sufficient moneys to make such payment; (2) all necessary and proper fees, compensation and expenses of the Trustee and any Paying Agent pertaining to the Bonds with respect to which such deposit is made shall have been paid or the payment thereof provided for; and (3) in the event that Government Obligations have been deposited with the Trustee for purposes of clause (1)(b), above, the Authority shall have caused to be delivered: (a) a report of a Certified Public Accountant verifying the sufficiency of the escrow established to pay such Bonds in full on maturity or redemption date (“Verification”), (b) an escrow deposit agreement, (c) an opinion of nationally recognized bond counsel to the effect that such Bonds are no longer Outstanding under the Indenture, and (d) a certificate of discharge of the Trustee with respect to such Bonds. At such times as a Bond shall be deemed to be paid under the defeasance provision of the Indenture, as aforesaid, such Bond shall no longer be secured by or entitled to the benefits of the Indenture, except for the purposes of any such payment from such moneys or Government Obligations.

Notwithstanding the provision described in the immediately preceding paragraph, no deposit under clause (1)(b) of the immediately preceding paragraph shall be deemed a payment of such Bonds as aforesaid until: (i) proper notice of redemption of such Bonds shall have been previously given in accordance with the redemption provisions of Indenture, or in the event said Bonds are not to be redeemed within the next succeeding 60 days, until the Authority shall have given the Trustee, in form satisfactory to the Trustee, irrevocable instructions to notify, as soon as practicable, the Registered Owners of the Bonds, in accordance with the Indenture, that the required deposit described in clause (1)(b) of the immediately preceding paragraph above has been made with the Trustee and that said Bonds are deemed to have been paid in accordance with the defeasance provision of the Indenture and stating the maturity or redemption date upon which moneys are to be available for the payment of the principal or Redemption Price of said Bonds, plus interest thereon to the due date thereof; or (ii) the maturity of such Bonds.

#### Deposit of Funds.

Bonds for the payment of which, and Bonds for the redemption of which, moneys or securities in the necessary amount as set forth above, shall then be held by, or otherwise made available to, the Trustee, including moneys for the payment of fees and expenses of the Trustee, in such manner as shall be satisfactory to the Trustee, with irrevocable direction so to apply the same (subject to the provisions under “Unclaimed Moneys” below), whether at or prior to the maturity or the redemption date of such Bonds, shall be deemed to have been paid and not Outstanding within the meaning of the defeasance provision of the Indenture and shall no longer be entitled to any lien under the Indenture; and the interest due on such Bonds shall cease to accrue on and after such maturity date or date fixed for redemption, as applicable, and after such deposit, the Bondholders shall be restricted to the funds so deposited for payment thereof; provided that in case of redemption the notice requisite to the validity of such redemption shall have been mailed, waived or given or irrevocable provision shall have been made insuring to the satisfaction of the Trustee that the same will be given.

#### Application of Funds.

All moneys deposited with, or otherwise made available to, the Trustee pursuant to the provision described under “Deposit of Funds” above shall be held in trust and applied by it to the payment, either directly or through any Paying Agent or to the Registered Owners of the particular Bonds, for the payment or redemption of which such moneys have been deposited with the Trustee, of all sums due and to become due thereon for principal and interest.

### Unclaimed Moneys.

Moneys so deposited with the Trustee or the Paying Agent which remain unclaimed five years after the date payment of the Bonds becomes due shall, upon request of the Authority, if the Authority is not at the time to the knowledge of the Trustee or the Paying Agent in default with respect to any covenant in the Indenture or the Bonds, be paid to the Authority; and the Registered Owners of the Bonds for which the deposit was made shall thereafter be limited to a claim against the Authority; provided, however, that the Paying Agent, before making payment to the Authority, may, at the expense of the Authority, cause a notice to be mailed to the Registered Owners of such unpaid Bonds as their names appear on the registration books of the Authority, stating that the moneys remaining unclaimed will be returned to the Authority after a specified date.

## **THE GROUND LEASE**

### **Term; Rentals**

The Ground Lease provides that the City shall lease to the Authority the Property for a term beginning as of June 1, 2009 and ending April 30, 2039, subject to extension or termination as set forth therein.

In consideration of the lease of the Property to the Authority pursuant to the Original Ground Lease, the Authority agreed to pay the purchase price and costs of the Property acquisition and any preliminary studies, surveys, planning, testing and design work, fees and expenses of engineers, architects, financial advisors, attorneys and other experts, cost of materials, supplies and construction expended by the City for the Project prior to the date of the Original Ground Lease as rentals to the City. The Authority is not liable for the payment of any taxes or utility charges in respect of the Property during the term of the Ground Lease.

### **Covenants of the Authority and the City**

#### Peaceable Enjoyment.

The City covenants that the Authority, upon observing and performing the terms, conditions and covenants of the Ground Lease, shall peaceably and quietly hold the property during the term of the Ground Lease without interruption by the City.

#### Compliance with Laws.

The City represents that the Property is in material compliance with all applicable laws and that it will not take any action or request that the Authority take any action that would be in violation of such laws.

#### Power to Perform Obligations.

The Authority covenants and represents that that it has the power and legal right to enter into and perform its obligations under the Ground Lease.

#### Surrender of Premises.

The Authority covenants that it will peaceably and quietly surrender the Property to the City at the termination of the Ground Lease and the simultaneous expiration or earlier termination of the Prime Lease.

### Insurance and Condemnation Proceeds.

If the Property shall be wholly or partially destroyed or damaged by fire or other casualty covered by insurance or shall be wholly or partially condemned, taken or injured by any person, the Authority and the City covenant that they will take all actions and will do all things which may be necessary to enable recovery to be made upon such policies of insurance or on account of such taking, condemnation, conveyance, damage or injury in order that moneys due on account of losses suffered may be collected. The rights and obligations regarding such moneys shall be governed by the Prime Lease.

### Issuance of 2017 Bonds.

In the 2017 Ground Lease Amendment, the City acknowledges that the Authority is issuing the 2017 Bonds for the purposes stated therein as Bonds under the Indenture.

### **Events of Default and Remedies**

The following shall constitute Events of Default under the Ground Lease: (a) the Authority fails to make any payment required to be made under the Ground Lease when due; or (b) any Act of Bankruptcy by the Authority; or (c) any mechanic's or materialman's lien or claim is filed against the Property or notice or intention to file is given and not removed, satisfied, discharged or bonded within 90 days; or (d) any lis pendens, judgment, lien encumbrance, notice of lien, attachment, levy or other adverse charge shall be entered or filed against the Authority's interest in the Property; or (e) any failure by the Authority to observe or perform any of the terms, covenants, agreements, provisions, conditions or limitations contained in the Ground Lease.

Upon the occurrence of an Event of Default by the Authority, the City shall have, in addition to all other rights and remedies available to the City at law or in equity, the following rights and remedies: (a) to institute any and all proceedings permitted by law or equity, including, but not limited to, an action to enjoin a violation of the Ground Lease by the Authority; and (b) to seek and obtain, and the Authority hereby consents to the entry of, a temporary restraining order, together with such other temporary, preliminary and permanent injunctive or other equitable relief, from any court of competent jurisdiction capable of issuing or granting such relief, to compel the Authority to respect, comply with or refrain from breaching or violating the terms, covenants and conditions of the Ground Lease, and, with respect thereto, the Authority shall waive any requirement that the City post a bond or other security in connection with such injunctive or other equitable relief.

Under no circumstances shall the City's remedies include the right to cause an acceleration of the rental payments due under the Ground Lease or a termination of the Ground Lease. The City may, however, cure an Event of Default on behalf of the Authority.

### **Termination**

During any period when any Bonds are Outstanding, any obligations are outstanding under a Credit Facility, there shall not have been a defeasance of the lien of the Indenture, or the Authority's obligations shall not have been duly terminated, the City agrees that it shall not terminate the Ground Lease unless it has first received written consent of the Authority, the Trustee, and, if required under the Indenture, the Bondholders, to terminate the Ground Lease.

## THE PRIME LEASE

### Term; Rentals

The Prime Lease provides that the Authority has leased to the City the Leased Premises for a term beginning as June 1, 2009 and ending April 30, 2039, subject to extension or termination as set forth therein.

The City shall pay as rentals to the Authority the following sums at the following times:

(a) for deposit in the Bond Fund under the Indenture, on or before 10:00 a.m. Philadelphia time, on the date three Business Days prior to each Interest Payment Date or Sinking Fund Installment Date or on any other date that principal of and premium, if any, and interest on the Bonds, or any portion thereof, shall be due and payable, whether by maturity, redemption (other than by acceleration under the Indenture) or otherwise, an amount which, together with other moneys in the Bond Fund available therefor, is sufficient to make the Authority's required payments of principal of and premium, if any, and interest on the Bonds then becoming due, whether by maturity (other than by acceleration under the Indenture), redemption or otherwise;

(b) on or before the first day of each quarter, such amount as shall provide for the Authority's Administrative Expenses incurred in connection with the Leased Premises and the Project, to the extent not otherwise paid by the City, including an amount which is sufficient to make any payment required to be made by the Authority to the United States Treasury, as provided in the Indenture and as requested in writing by the Authority; and

(c) at least one Business Day prior to the date when due, all amounts due and payable under any other Obligations to the extent not provided for in the preceding paragraphs.

As additional rental payments under the Prime Lease, the City shall pay all taxes and utility charges in respect of the Leased Premises.

In addition, from time to time, the City shall be required to make payments necessary to make up any deficiency in the funds established under the Indenture or to pay for any cost overruns with respect to the Project. At least 15 days prior to the beginning of each Fiscal Year, the Authority shall cause the Trustee to advise the City of the amount of such rental payments.

All rentals payable under the Prime Lease shall be paid in immediately available funds and held, invested, disbursed and applied as provided in the Indenture; provided, however, that, on or before 45 days prior to any Sinking Fund Installment Date, the City may deliver to the Trustee Bonds of a maturity, a portion of which is required to be redeemed by the Trustee on such Sinking Fund Installment Date, and the rentals required to effect such redemption otherwise due from the City shall be reduced by the aggregate principal amount of the Bonds so delivered up to the full amount of such Sinking Fund Installment.

If the moneys available to the Authority for the purposes of the Indenture should be insufficient to pay the Authority's obligations thereunder or under the Bonds or any other Obligations, then the City upon demand shall pay to the Authority or its assigns such additional sum or sums in each Fiscal Year as shall be required for such purposes.

The Authority directs the rental payments to be paid to the Trustee under the Indenture, to which, under the terms of the Indenture, the Prime Lease and the rental payments payable thereunder are assigned, or to its successor trustee under the Indenture, and the City consents to such assignment and agrees to pay the moneys directly to the Trustee.

The rentals shall be payable only out of the current revenues of the City, and the City agrees to provide for the payment of rentals and include the same in its annual Operating Budget for each year. If the current revenues are insufficient to pay the total rentals in any Fiscal Year as the same become due and payable, the City covenants to include amounts not so paid in its Operating Budget for the ensuing Fiscal Year and to produce sufficient current revenues to pay in each ensuing year such balance due in addition to the amount of rental due for such ensuing year. The City covenants to make appropriations in each of its Fiscal Years in such amounts as shall be required in order to make all rental payments due and payable under the Prime Lease in each of the City's Fiscal Years.

### **Unconditional Obligation**

The City shall pay rentals and additional sums required under the Prime Lease without suspension or abatement of any nature, notwithstanding (i) any and all defaults under the Ground Lease or the invalidity or unenforceability of the Ground Lease against the City, or (ii) that all or any part of the Leased Premises shall have been wholly or partially destroyed, damaged or injured and shall not have been repaired, replaced or rebuilt. So long as any of the Obligations remain Outstanding or sufficient money for the payment of the Obligations in full shall not be held by the Trustee in trust therefor, the obligation of the City to pay rentals from current revenues of the City shall be absolute and unconditional and shall not be suspended, abated, reduced, abrogated, waived, diminished or otherwise modified in any manner or to any extent whatsoever, and regardless of any rights of setoff, recoupment or counterclaim that the City might otherwise have against the Authority or the Trustee or any other party or parties and regardless of any contingency, act of God, event or cause whatsoever and notwithstanding any circumstances or occurrence that may arise or take place during the term of the Prime Lease, including, but without limiting the generality of the foregoing: (a) any damage to or destruction of any part or all of the Leased Premises or any claims against the City's or the Authority's interest in any part or all of the Leased Premises; (b) the taking or damaging of any part or all of the Leased Premises, by any public authority or agency in the exercise of the power of or in the nature of eminent domain or by way of a conveyance in lieu of such exercise or otherwise; (c) any assignment, novation, merger, consolidation, transfer of assets, leasing or other similar transaction of or affecting the City, whether with or without the approval of the Authority or the Trustee; (d) the expiration of the term of the Prime Lease pursuant to the provisions thereof; (e) any failure of the Authority or the Trustee to perform or observe any agreement or covenant, whether express or implied, or any duty, liability or obligation arising out of or connected with the Prime Lease, the Indenture, the Bonds or any other Obligations; (f) any acts or circumstances that may constitute an eviction or constructive eviction; (g) failure of consideration, failure of title or commercial frustration; (h) any change in the tax or other laws of the United States or of any state or other governmental authority; (i) any determination that the interest on the Bonds is included in gross income of the owners thereof for purposes of federal income taxation; (j) any change in the law applicable to the Prime Lease or the Indenture; and (k) the failure to complete the construction or the equipping of any Capital Addition.

### **2017 Bonds**

Pursuant to the 2017 Prime Lease Amendment, the rental payments set forth in the Original Prime Lease shall include the principal of and interest on the 2017 Bonds.

### **Insurance and Condemnation**

All risk of loss, damage, theft or destruction of the Leased Premises shall be borne by the City whose obligations under the Prime Lease shall continue in full force and effect upon such event. The City will provide personal and property liability insurance either through self insurance or maintain such policies by itself or through the Authority.

If the Leased Premises shall be wholly or partially destroyed or damaged by fire or other casualty covered by insurance or shall be wholly or partially condemned, taken or injured by any person, the Authority and the City covenant that they will take all actions and will do all things which may be necessary to enable recovery to be made upon such policies of insurance or on account of such taking, condemnation, conveyance, damage or injury in order that moneys due on account of losses suffered may be collected and paid to the Trustee.

If moneys collected under policies of insurance or on account of condemnation, damage or injury with respect to any one loss shall equal or exceed \$500,000 and the Consulting Engineer shall have determined that repair, reconstruction or replacement is practicable and desirable, and if the Authority and the City shall request, the Authority agrees that such moneys shall be paid by the Trustee for costs of such repair, reconstruction or replacement as provided in the Indenture from the Construction Fund. Moneys in excess of the amount needed for costs of such repair, reconstruction or replacement shall be deposited in the Bond Fund. If moneys collected under policies of insurance or on account of condemnation, damage or injury with respect to any one loss shall be less than \$500,000 and the Consulting Engineer shall have determined that repair, reconstruction or replacement is practicable and desirable, and if the Authority and the City shall request, the Authority agrees that the Trustee shall pay such moneys to the City to be used by it for the purpose of paying costs of such repair, reconstruction or replacement and neither requisitions nor certificates shall be required.

In the event that any insurance or condemnation proceeds are not applied as set forth above within 12 months after receipt by the Trustee, or if the Authority fails to obtain the required certificate of the Consulting Engineer within three months after occurrence of the condemnation or damage to the Leased Premises, or if the certificate of the Consulting Engineer states that the repair, reconstruction or replacement is not practicable or desirable, then the insurance proceeds or condemnation awards shall be deposited in the Special Account of the Bond Fund for application in accordance with the provisions of the Indenture.

Subject to the provisions of the Indenture and the Bonds, if any insurance proceeds or condemnation proceeds are deposited in the Bond Fund, such proceeds shall be applied first, to the payment of any Bonds on which the Authority is in default under the Indenture and thereafter, to the redemption of Bonds designated by the City in writing to the Trustee; provided, however, that such redemption is made in accordance with the Indenture.

### **Covenants of the Authority and the City**

#### **Construction, Operation and Maintenance.**

The City covenants to provide for the construction and equipping of the Project or Capital Additions subsequently authorized and agreed upon in accordance with the plans and specifications therefor. The City shall determine the level of operation and maintenance of the Leased Premises, and any repairs or replacements which the City shall install shall become the property of the Authority. The City further covenants that it will not commit or suffer any stripping or waste of the Leased Premises. The City will bear all costs in connection with the use of the Leased Premises.

#### **Compliance with Laws and Recorded Covenants.**

The City covenants that all actions heretofore and hereafter taken by the City or by the Authority upon the recommendation or request of any officer of the City to acquire and carry out the Project and any additional project or any Capital Addition, have been in material compliance and will be in full compliance with all pertinent laws and recorded covenants applicable to the City and to the Authority. In connection



with the operation, maintenance, repair and replacement of the Leased Premises, the City covenants that it shall comply with all applicable laws and recorded covenants and any requirement of any board of fire underwriters having jurisdiction or of any insurance company writing insurance on the Leased Premises. The City further covenants and represents that the Leased Premises are in material compliance with all applicable zoning, subdivision, building, land use and similar laws and ordinances. The City covenants that it shall not take any action or request the Authority to execute any release which would cause the Leased Premises to be in violation of such laws or ordinances or such that a conveyance of the Leased Premises or of any portion of the Leased Premises would create a violation of such laws and ordinances.

#### Preservation of the Leased Premises.

Except with respect to the transactions contemplated by the Prime Lease or any Permitted Encumbrances, the City covenants that it will not: (a) transfer the Prime Lease or the Leased Premises or any interest therein or part thereof, unless otherwise permitted by the Prime Lease or the Indenture; (b) do or permit others under its control to do any work in or about the Leased Premises or related to any repair, rebuilding, restoration, replacement, alteration of or addition to the Leased Premises, or any part thereof, unless the City shall have first procured and paid for all requisite municipal and other governmental permits and authorizations; or (c) do anything whereby the Leased Premises, or any part thereof, may be encumbered by any mechanic's or other similar lien and if, whenever any mechanic's or other similar lien is filed against the Leased Premises, or any part thereof, the City shall discharge the same of record within 30 days after the date of filing.

#### Termination; Possession.

Upon termination of the Prime Lease, the City covenants that it will peaceably deliver possession of the Leased Premises upon demand by the Authority or, in the case of default, upon demand made by the Authority and the Trustee, in good repair and operating condition.

#### Investments and Use to Comply with the Code.

The City and the Authority each covenants that it will neither make nor instruct the Trustee to make any investment or other use of the proceeds of the Bonds or any other Obligation intended by its terms to be tax-exempt which would cause such Bonds or Obligations to be "arbitrage bonds" as that term is defined in section 148(a) of the Code, and all applicable regulations promulgated with respect thereto, and that it will comply with the requirements of the Code and applicable regulations throughout the term of the Bonds or Obligations so that the interest on the Bonds or Obligations shall be excluded from gross income of the owners thereof for federal income tax purposes. The City covenants that it will not use or permit the use of the Leased Premises in such a manner as would result, or allow the use of the Leased Premises by any entity whose use thereof would result, in the loss of the exclusion of interest on the Bonds or any other Obligation intended by its terms to be tax-exempt from gross income of the owners thereof for federal tax purposes.

#### Surrender of Premises.

Upon the expiration or earlier termination of the Prime Lease and the simultaneous expiration or earlier termination of the Ground Lease, the Authority shall peaceably and quietly, surrender, vacate and deliver up possession of the Leased Premises to the City, and the rights and obligations of the City and the Authority to the Leased Premises.

## **Events of Default; Termination of the Prime Lease**

If the City shall fail to make any payment required by the Prime Lease or by the Indenture for a period of two Business Days after the due date or shall fail to comply with any of the other covenants contained in the Prime Lease and such failure shall not have been remedied or made good within 45 days after written notice of such failure given to the City by the Authority, or the City shall file for relief concerning its indebtedness under any federal or state statute, the same shall constitute a default under the terms of the Prime Lease. Thereafter the Authority shall have the right to terminate the Prime Lease and to lease the Leased Premises to third parties and to take such other acts or steps as may be available under the Indenture or in law, equity or otherwise.

Termination of the Prime Lease by the Authority shall not relieve the City of any previously accrued obligations under the Prime Lease, nor shall it relieve the City of its obligations to make payments to the Authority on the dates when such payments are required under the Prime Lease or the Indenture, unless such premises have been relet, in which event the City is entitled to have credited against its rental obligations under the Prime Lease and the Indenture any net proceeds of the reletting of the Leased Premises by the Authority.

## **Amendment of the Prime Lease**

Subject to provision that the parties shall not adversely affect the rights or the security of the Bondholders and the holders of other Obligations, the parties to the Prime Lease may amend the Prime Lease only for the following purposes: (a) in connection with the issuance of Additional Bonds or other Obligations; or (b) to cure any ambiguity, defect or omission therein or in any amendment thereto; or (c) to reflect a change in applicable law; or (d) to preserve the exemption from federal income tax of interest on the Bonds, provided such amendment would not affect less than all of the Bonds; or (e) to obtain, maintain or improve any securities ratings of the Bonds by a Rating Agency; or (f) in connection with the leasing of the Parking Parcel by PAID to the Authority and by the Authority to the City; or (g) to add to the covenants and agreements of the City therein contained, or to surrender any right or power therein reserved to or conferred upon the City which shall not impair the security thereof or adversely affect the rights of the Bondholders under the Indenture.

All other amendments must be approved by the Trustee and, if the Indenture must be amended with Bondholders' consent or the consent of the holders of other Obligations, by a Qualified Majority of the Registered Owners in the same manner and to the same extent as is set forth in the Indenture; provided that the President of City Council must approve in writing any amendment consistent with the terms of the Ordinance; and further provided, however, that if any such proposed amendment would increase the Authority's or the City's financial obligations under the Prime Lease, or otherwise materially affect the rights and powers of the Authority, the City or any official of the City under the Prime Lease, then the President of City Council shall refer such proposed amendment to the City Council for its consideration; if the City Council approves such amendment by ordinance, it may be executed by or on behalf of the City, unless the President of City Council waives the requirement for approval of City Council if the City Council makes a written determination that a necessary change to protect the interests of the City must be executed sooner than City Council approval may legally or practicably be granted.

## APPENDIX E

### FORM OF CONTINUING DISCLOSURE AGREEMENT

This Continuing Disclosure Agreement (the “Agreement”) dated as of April 25, 2017, by and between The City of Philadelphia, Pennsylvania (“City”) and Digital Assurance Certification, L.L.C., as dissemination agent (“Dissemination Agent”) in connection with the issuance and sale by the Philadelphia Municipal Authority (the “Authority”) of \$83,220,000 aggregate principal amount of its City Agreement Revenue Refunding Bonds, Series 2017 (Juvenile Justice Services Center) (the “Bonds”). Capitalized terms used in this Agreement which are not otherwise defined herein shall have the meanings given to such terms in the Official Statement or the Indenture (as defined in the Official Statement).

The Bonds are being issued pursuant to the provisions of (i) the Act, (ii) the Resolution, and (iii) the Indenture, and as approved by the Ordinance.

In consideration of the mutual covenants, promises and agreements contained herein and intending to be legally bound hereby, the parties hereto agree as follows:

#### ARTICLE I

##### The Undertaking

Section 1.1. Purpose. This Agreement is being executed and delivered by the City solely to assist the Underwriters in complying with subsection (b)(5) of the Rule.

Section 1.2. Annual Financial Information. (a) Commencing with the Fiscal Year ending June 30, 2017, the Disclosure Representative shall deliver to the Dissemination Agent no later than February 28, 2018, and no later than each succeeding February 28 thereafter, Annual Financial Information with respect to each Fiscal Year of the City. The Dissemination Agent shall promptly upon receipt thereof file the Annual Financial Information with EMMA (as defined herein).

(b) The Dissemination Agent shall provide, in a timely manner, notice of any failure of the City to provide the Annual Financial Information by the date specified in subsection (a) hereof.

Section 1.3. Audited Financial Statements. If not provided as part of Annual Financial Information by the date required by Section 1.2(a) hereof, the Disclosure Representative shall provide Audited Financial Statements, when and if available, to the Dissemination Agent. The Dissemination Agent shall promptly upon receipt thereof file such Audited Financial Statements with EMMA.

Section 1.4. Notice Events. (a) If a Notice Event occurs, the Disclosure Representative shall provide through the Dissemination Agent, in a timely manner not in excess of ten (10) business days after the occurrence of such Notice Event, notice of such Notice Event to EMMA.

(b) Any notice of a defeasance of the Bonds shall state whether the Bonds have been escrowed to maturity or to an earlier redemption date and the timing of such maturity or redemption.

(c) Each Notice Event notice relating to the Bonds shall include the CUSIP numbers of the Bonds to which such Notice Event notice relates or, if the Notice Event notice relates to all bond issues of the City including the Bonds, such Notice Event notice need only include the CUSIP number of the City.

(d) The Dissemination Agent shall promptly advise the City whenever, in the course of performing its duties as Dissemination Agent under this Agreement, the Dissemination Agent has actual notice of an occurrence which, if material, would require the City to provide notice of a Notice Event hereunder; provided, however, that the failure of the Dissemination Agent so to advise the City shall not constitute a breach by the Dissemination Agent of any of its duties and responsibilities under this Agreement.

Section 1.5. Additional Information. Nothing in this Agreement shall be deemed to prevent the City from disseminating any other information, using the means of dissemination set forth in this Agreement or any other means of communication, or including any other information in any Annual Financial Information or notice of Notice Event hereunder, in addition to that which is required by this Agreement. If the City chooses to do so, the City shall have no obligation under this Agreement to update such additional information or include it in any future Annual Financial Information or notice of a Notice Event hereunder.

Section 1.6. Additional Disclosure Obligations. The City acknowledges and understands that other state and federal laws, including but not limited to the Securities Act of 1933 and Rule 10b-5 promulgated under the Securities Exchange Act of 1934, may apply to the City and that, under some circumstances, compliance with this Agreement without additional disclosures or other action may not fully discharge all duties and obligations of the City under such laws.

## ARTICLE II

### Operating Rules

Section 2.1. Reference to Other Filed Documents. It shall be sufficient for purposes of Section 1.2 hereof if the City provides Annual Financial Information by specific reference to documents (i) available to the public on the MSRB Internet Web site (currently, [www.emma.msrb.org](http://www.emma.msrb.org)) or (ii) filed with the SEC. The provisions of this Section shall not apply to notices of Notice Events pursuant to Section 1.4 hereof.

Section 2.2. Submission of Information. Annual Financial Information may be set forth or provided in one document or a set of documents, and at one time or in part from time to time.

Section 2.3. Dissemination Agent. The City has designated the Dissemination Agent as its agent to act on its behalf in providing or filing notices, documents and information as required of the City under this Agreement. The City may revoke or modify such designation. Upon any revocation of such designation, the City shall comply with its obligation to provide or file notices, documents and information as required under this Agreement or may designate another agent to act on its behalf.

Section 2.4. Transmission of Notices, Documents and Information. (a) Unless otherwise required by the MSRB, all notices, documents and information provided to the MSRB shall be provided to the MSRB's Electronic Municipal Markets Access ("EMMA") system, the current Internet Web address of which is [www.emma.msrb.org](http://www.emma.msrb.org).

(b) All notices, documents and information provided on EMMA shall be provided in an electronic format as prescribed by the MSRB and shall be accompanied by identifying information as prescribed by the MSRB.

Section 2.5. Fiscal Year. (a) The City's current Fiscal Year begins July 1 and ends June 30, and the City shall promptly file a notification on EMMA, through the Dissemination Agent, of each change in its Fiscal Year.

(b) Annual Financial Information shall be provided at least annually notwithstanding any Fiscal Year longer than 12 calendar months.

### ARTICLE III

#### Effective Date, Termination, Amendment and Enforcement

Section 3.1. Effective Date; Termination. (a) This Agreement shall be effective upon the issuance of the Bonds.

(b) The City's and the Dissemination Agent's obligations under this Agreement shall terminate upon a legal defeasance, prior redemption or payment in full of all of the Bonds.

Section 3.2. Amendment. (a) This Agreement may be amended, by written agreement of the parties, without the consent of the holders of the Bonds (except to the extent required under clause (4)(ii) below), if all of the following conditions are satisfied:

(1) such amendment is made in connection with a change in circumstances that arises from a change in legal (including regulatory) requirements, a change in law (including rules or regulations) or in interpretations thereof, or a change in the identity, nature or status of the City or the type of business conducted thereby,

(2) this Agreement as so amended would have complied with the requirements of the Rule as of the date of this Agreement, after taking into account any amendments or interpretations of the Rule, as well as any change in circumstances,

(3) the City shall have delivered to the Dissemination Agent an opinion of Counsel, addressed to the City and the Dissemination Agent, to the same effect as set forth in clause (2) above,

(4) either (i) the City shall have delivered to the Dissemination Agent an opinion of Counsel or a determination by an entity, in each case unaffiliated with the City (such as bond counsel or the Dissemination Agent), addressed to the City and the Dissemination Agent, to the effect that the amendment does not materially impair the interests of the holders of the Bonds, or

(ii) the holders of the Bonds consent to the amendment to this Agreement pursuant to the same procedures as are required for amendments to the Indenture with consent of holders of Bonds pursuant to such applicable indenture as in effect at the time of the amendment, and

(5) the Disclosure Representative shall have delivered copies of such opinion(s) and amendment to the Dissemination Agent. Such amendment shall be promptly filed by the Dissemination Agent on EMMA and sent to each Registered Owner.

(b) This Agreement may be amended, by written agreement of the parties, without the consent of the holders of the Bonds, if all of the following conditions are satisfied: (1) an amendment to the Rule is adopted, or a new or modified official interpretation of the Rule is issued, after the effective date of this Agreement which is applicable to this Agreement, (2) the City shall have delivered to the Dissemination Agent an opinion of Counsel, addressed to the City and the Dissemination Agent, to the

effect that performance by the City and the Dissemination Agent under this Agreement as so amended will not result in a violation of the Rule and (3) the Disclosure Representative shall have delivered copies of such opinion and amendment to the Dissemination Agent. Such amendment shall be promptly filed by the Dissemination Agent on EMMA and sent to each Registered Owner.

(c) This Agreement may be amended by written agreement of the parties, without the consent of the holders of the Bonds, if all of the following conditions are satisfied: (1) the City shall have delivered to the Dissemination Agent an opinion of Counsel, addressed to the City and the Dissemination Agent, to the effect that the amendment is permitted by rule, order or other official pronouncement, or is consistent with any interpretive advice or no-action positions of Staff, of the SEC, and (2) the Disclosure Representative shall have delivered copies of such opinion and amendment to the Dissemination Agent. Such amendment shall be promptly filed by the Dissemination Agent on EMMA and sent to each Registered Owner.

(d) To the extent any amendment to this Agreement results in a change in the type of financial information or operating data provided pursuant to this Agreement, the first Annual Financial Information provided thereafter shall include a narrative explanation of the reasons for the amendment and the impact of the change in the type of operating data or financial information being provided.

(e) If an amendment is made pursuant to Section 3.2(a) hereof to the accounting principles to be followed by the City in preparing its financial statements, the Annual Financial Information for the Fiscal Year in which the change is made shall present a comparison between the financial statements or information prepared on the basis of the new accounting principles and those prepared on the basis of the former accounting principles. Such comparison shall include a qualitative and, to the extent reasonably feasible, quantitative discussion of the differences in the accounting principles and the impact of the change in the accounting principles on the presentation of the financial information.

Section 3.3. Benefit; Third-Party Beneficiaries; Enforcement. (a) The provisions of this Agreement shall constitute a contract with and inure solely to the benefit of the holders from time to time of the Bonds, except that beneficial owners of Bonds shall be third-party beneficiaries of this Agreement. The provisions of this Agreement shall create no rights in any person or entity except as provided in this subsection (a) and in subsection (b) of this Section.

(b) The obligations of the City to comply with the provisions of this Agreement shall be enforceable by any holder of outstanding Bonds. The holders' rights to enforce the provisions of this Agreement shall be limited solely to a right, by action in mandamus or for specific performance, to compel performance of the City's obligations under this Agreement. In consideration of the third-party beneficiary status of beneficial owners of Bonds pursuant to subsection (a) of this Section, beneficial owners shall be deemed to be holders of Bonds for purposes of this subsection (b).

(c) Any failure by the City or the Dissemination Agent to perform in accordance with this Agreement shall not constitute a default or an Event of Default under the Indenture and the rights and remedies provided by the Indenture upon the occurrence of a default or an Event of Default shall not apply to any such failure.

(d) This Agreement shall be construed and interpreted in accordance with the laws of the Commonwealth, and any suits and actions arising out of this Agreement shall be instituted in a court of competent jurisdiction in the Commonwealth; provided, however, that to the extent this Agreement addresses matters of federal securities laws, including the Rule, this Agreement shall be construed in accordance with such federal securities laws and official interpretations thereof.

## ARTICLE IV

### Definitions

Section 4.1. Definitions. The following terms used in this Agreement shall have the following respective meanings:

(1) “Annual Financial Information” means, collectively, (i) the City’s Comprehensive Annual Financial Report (“CAFR”), which contains the Audited Financial Statements, (ii) to the extent such information is not contained in the CAFR, the financial information or operating data with respect to the City, substantially similar to the type set forth in Tables 1-52 in APPENDIX A attached to the Official Statement (with the exception of Table 19 and Table 48), and (iii) the information regarding amendments to this Agreement required pursuant to Sections 3.2(d) and (e) of this Agreement. As set forth in clause (i) above, Annual Financial Information shall include Audited Financial Statements, if available, or Unaudited Financial Statements.

Annual Financial Information shall be delivered at least annually pursuant to Section 1.2(a) hereof. In connection with Section 4.1(1), it is the City’s intention to satisfy all or a portion of the obligations set forth therein by submitting to EMMA (A) its CAFR and (B) to the extent not otherwise updated in the CAFR, (1) an APPENDIX A that includes annual updates to the Tables specified in clause (ii) above, or (2) if the City does not have such an APPENDIX A prepared, annual updates to the Tables specified in clause (ii) above. If at any time the City deletes, for purposes of a then-current APPENDIX A, certain financial information or operating data from APPENDIX A as attached to the Official Statement that is included in one of the Tables specified above, such deleted information will be submitted separately from the updated APPENDIX A.

The descriptions contained in Section 4.1(1)(ii) hereof of financial information and operating data constituting Annual Financial Information are of general categories of financial information and operating data. When such descriptions include information that no longer can be generated because the operations to which it related have been materially changed or discontinued, a statement to that effect shall be provided in lieu of such information. Any Annual Financial Information containing modified financial information or operating data shall explain, in narrative form, the reasons for the modification and the impact of the modification on the type of financial information or operating data being provided.

(2) “Audited Financial Statements” means the annual financial statements, if any, of the City, audited by such auditor as shall then be required or permitted by Commonwealth law or the City Charter. Audited Financial Statements shall be prepared in accordance with GAAP; provided, however, that pursuant to Sections 3.2(a) and (e) hereof, the City may from time to time, if required by federal or Commonwealth legal requirements, modify the accounting principles to be followed in preparing its financial statements. The notice of any such modification required by Section 3.2(a) hereof shall include a reference to the specific federal or Commonwealth law or regulation describing such accounting principles, or other description thereof.

(3) “City Charter” means the Home Rule Charter authorized by the General Assembly in the First Class City Home Rule Act (Act of April 21, 1949, P.L. 665, Section 17) and adopted by the voters of the City, as amended and supplemented.

(4) “Commonwealth” means the Commonwealth of Pennsylvania.

(5) “Counsel” means any nationally recognized bond counsel or counsel expert in federal securities laws.

(6) “Disclosure Representative” means the Director of Finance of the City, the City Treasurer or such other official or employee of the City as the Director of Finance or the City Treasurer shall designate in writing to the Dissemination Agent.

(7) “GAAP” means generally accepted accounting principles as prescribed from time to time for governmental units by the Governmental Accounting Standards Board, the Financial Accounting Standards Board, or any successor to the duties and responsibilities of either of them.

(8) “MSRB” means the Municipal Securities Rulemaking Board established pursuant to Section 15B(b)(1) of the Securities Exchange Act of 1934, or any successor thereto or to the functions of the MSRB contemplated by this Agreement.

(9) “Notice Event” means any of the following events with respect to the Bonds, whether relating to the City or otherwise:

- (i) principal and interest payment delinquencies;
- (ii) non-payment related defaults, if material;
- (iii) unscheduled draws on debt service reserves reflecting financial difficulties;
- (iv) unscheduled draws on credit enhancements reflecting financial difficulties;
- (v) substitution of credit or liquidity providers, or their failure to perform;
- (vi) adverse tax opinions, the issuance by the Internal Revenue Service of proposed or final determinations of taxability, Notices of Proposed Issue (IRS Form 5701-TEB) or other material notices of determinations with respect to the tax status of the Bonds, or other material events affecting the tax status of the Bonds;
- (vii) modifications to rights of Bondholders, if material;
- (viii) Bond calls, if material, and tender offers;
- (ix) defeasances;
- (x) release, substitution, or sale of property securing repayment of the Bonds, if material;
- (xi) rating changes;
- (xii) bankruptcy, insolvency, receivership or similar event of the City;
- (xiii) the consummation of a merger, consolidation, or acquisition involving the City or the sale of all or substantially all of the assets of the City, other than in the ordinary course of business, the entry into a definitive agreement to undertake such an action or the termination of a definitive agreement relating to any such actions, other than pursuant to its terms, if material; and
- (xiv) appointment of a successor or additional trustee or the change of name of a trustee, if material.



(10) “Official Statement” means the Official Statement dated April 12, 2017 of the City relating to the Bonds.

(11) “Registered Owner” or “Registered Owners” means the person or persons in whose name a Bond is registered on the books of the Authority maintained by the Trustee in accordance with the Indenture. For so long as the Bonds shall be registered in the name of the Securities Depository or its nominee, the term “Registered Owner” or “Registered Owners” also means and includes, for the purposes of this Agreement, the owners of book-entry credits in the Bonds evidencing an interest in the Bonds; provided, however, that the Dissemination Agent shall have no obligation to provide notice hereunder to owners of book-entry credits in the Bonds except those who have filed their names and addresses with the Dissemination Agent for the purposes of receiving notices or giving direction under this Agreement.

(12) “Rule” means Rule 15c2-12 promulgated by the SEC under the Securities Exchange Act of 1934 (17 CFR Part 240, §240.15c2-12), as amended, as in effect on the date of this Agreement, including any official interpretations thereof issued either before or after the effective date of this Agreement which are applicable to this Agreement.

(13) “SEC” means the United States Securities and Exchange Commission.

(14) “Securities Depository” shall mean The Depository Trust Company, New York, New York, or its nominee, Cede & Co., or any successor thereto appointed pursuant to the Indenture.

(15) “Unaudited Financial Statements” means the same as Audited Financial Statements, except that they shall not have been audited.

(16) “Underwriters” means the financial institutions named on the cover of the Official Statement.

## ARTICLE V

### Miscellaneous

Section 5.1. Duties, Immunities and Liabilities of the Dissemination Agent. The Dissemination Agent shall have only such duties under the Agreement as are specifically set forth in this Agreement, and the City agrees to indemnify and save the Dissemination Agent, its officers, directors, employees and agents, harmless against any loss, expense and liabilities which it may incur arising out of or in the exercise or performance of its powers and duties hereunder, including the costs and expenses (including attorneys’ fees) of defending against any claim of liability, but excluding liabilities due to the Dissemination Agent’s negligence or willful misconduct in the performance of its duties hereunder. The obligations of the City under this Section shall survive resignation or removal of the Dissemination Agent and payment of the Bonds.

Section 5.2. Counterparts. This Agreement may be executed in several counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument.

IN WITNESS WHEREOF, THE CITY OF PHILADELPHIA, PENNSYLVANIA, has caused this Disclosure Agreement to be executed by the Director of Finance and DIGITAL ASSURANCE CERTIFICATION, L.L.C., as Dissemination Agent, has caused this Disclosure Agreement to be executed by one of its authorized officers, all as of the day and year first above written.

THE CITY OF PHILADELPHIA, PENNSYLVANIA

By: \_\_\_\_\_  
Name: Rob Dubow  
Title: Director of Finance

DIGITAL ASSURANCE CERTIFICATION, L.L.C.,  
as Dissemination Agent

By: \_\_\_\_\_  
Name:  
Title:

## **APPENDIX F**

### **PROPOSED FORM OF CO-BOND COUNSEL OPINION**

BELOW IS THE PROPOSED FORM OF OPINION OF CO-BOND COUNSEL  
EXPECTED TO BE DELIVERED IN CONNECTION WITH THE ISSUANCE OF THE 2017 BONDS

April 25, 2017

RE: THE PHILADELPHIA MUNICIPAL AUTHORITY  
City Agreement Revenue Refunding Bonds,  
Series 2017 (Juvenile Justice Services Center)

TO THE PURCHASERS OF THE REFERENCED BONDS:

We have served as Co-Bond Counsel to The Philadelphia Municipal Authority (the “Authority”) in connection with the issuance of \$83,220,000 aggregate principal amount of its City Agreement Revenue Refunding Bonds, Series 2017 (Juvenile Justice Services Center) (the “2017 Bonds”). The 2017 Bonds are being issued under and pursuant to the Pennsylvania Municipality Authorities Act, the Act of June 19, 2001, P.L. 287, as amended and supplemented (the “Act”), and a Trust Indenture dated as of June 1, 2009 (the “Original Indenture”), as amended and supplemented by a First Supplemental Indenture dated as of April 1, 2017 (the “Supplemental Indenture,” and together with the Original Indenture, the “Indenture”), between the Authority and U.S. Bank National Association, as trustee (the “Trustee”), and pursuant to a resolution of the Authority adopted on November 18, 2016, authorizing the issuance of the 2017 Bonds (the “Resolution”).

The 2017 Bonds will bear interest at fixed rates and will be issued only as fully registered bonds, in denominations of \$5,000 and any integral multiples of \$5,000 in excess thereof. The 2017 Bonds are subject to redemption as described in the Supplemental Indenture.

The 2017 Bonds are being issued to finance a project (the “Project”) consisting of the refunding of certain of the Authority’s outstanding Lease Revenue Bonds, Series 2009 and the payment of costs of issuance of the 2017 Bonds.

Pursuant to a Prime Lease dated as of June 1, 2009, as amended on May 22, 2014 (together, the “Original Lease”), and as further amended and supplemented by a Second Amendment to Prime Lease dated as of April 1, 2017 (the “Lease Supplement,” and together with the Original Lease, the “Lease”), between the City of Philadelphia, Pennsylvania (the “City”) and the Authority, the City will pay to the Trustee, as assignee of the Authority, rent for the Leased Premises (as defined in the Original Lease) sufficient to pay debt service on the 2017 Bonds when due and payable. Under the Indenture, the Authority has assigned and granted to the Trustee a security interest in all of the right, title and interest of the Authority in and to the Lease (except for certain reserved rights and the Authority’s obligations thereunder, which can only be performed by it), the Pledged Revenues (as defined in the Indenture, and which include revenues received by the Authority under the Lease) and all monies and securities held by the Trustee under the terms of the Indenture.

A portion of the Leased Premises has been leased to the Authority pursuant to a Ground Lease dated as of June 1, 2009 (the “Original Ground Lease”) between the City and the Authority. In connection with the issuance of the 2017 Bonds, the City and the Authority will enter into a First

Amendment of Ground Lease dated as of April 1, 2017 (the “Ground Lease Amendment,” and together with the Original Ground Lease, the “Ground Lease”).

The City Council of the City by Ordinance (Bill No. 160968), approved by the Mayor on December 14, 2016 (the “2016 Ordinance”), authorized and approved, among other things, the execution and delivery of the Lease Supplement, the Ground Lease Amendment, the Project and the issuance by the Authority of the 2017 Bonds to finance the Project.

We have examined the proceedings relating to the authorization and issuance of the 2017 Bonds, including, among other things: (a) the Act, and the Articles of Incorporation and By-Laws of the Authority; (b) a certified copy of the Resolution; (c) executed counterparts of the Indenture, the Lease and the Ground Lease or copies thereof; (d) certified copies of the 2016 Ordinance and the Ordinance of the City Council of the City (Bill No. 071083), approved by the Mayor on January 3, 2008; (e) the opinion of Austin McGreal, Esq., Authority Counsel and the opinion of Sozi Pedro Tulante, City Solicitor, each dated the date hereof and on each of which we have relied; (f) various certificates executed by the Authority, the City and/or the Trustee including certificates as to the authentication and delivery of the 2017 Bonds, and a certificate with regard to Sections 103 and 141 through 150 of the Internal Revenue Code of 1986, as amended (the “Code”); (g) the Form 8038-G of the Authority with respect to the 2017 Bonds; (h) the Escrow Deposit Agreement dated April 25, 2017, between the Authority, the City and the Trustee, and the verification report of AMTEC dated the date hereof; and (i) such other constitutional and statutory provisions and such other resolutions, certificates, instruments and documents as we have deemed necessary or appropriate in order to enable us to render the opinions set forth herein. We have also examined a fully executed and authenticated 2017 Bond, and we assume all other 2017 Bonds are in such form and are similarly executed and authenticated.

In rendering our opinion, we have assumed the accuracy of and not undertaken to verify the factual matters set forth in such agreements, certificates and other documents by independent investigation and have relied on the covenants, warranties and representations made by the Authority, the Trustee and the City in such certificates and in the Indenture, the Lease, the Ground Lease and other financing documents.

In addition, we have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, the conformity with originals of all documents submitted to us as copies and the authenticity of certificates of public officials. We have also assumed that the Indenture has been duly authorized by the Trustee and is a legally binding obligation of, and enforceable in accordance with its terms against, the Trustee.

From our examination of the foregoing and such other items as we deem relevant, we are of the opinion that:

1. The Authority is validly existing under the Act and has the power to issue the 2017 Bonds for the purpose of financing the Project.

2. The 2017 Bonds have been duly authorized, executed and delivered by the Authority, are entitled to the benefit and security of the Indenture, and are valid and binding special limited obligations of the Authority, payable as to principal, interest and all other obligations thereunder solely from, and enforceable only against, the revenues and receipts derived from the Trust Estate (as defined in the Indenture, which includes the Pledged Revenues), except as such enforcement may be limited by laws relating to bankruptcy, insolvency, reorganization, receivership, arrangement, moratorium and other laws affecting creditors’ rights, by equitable principles, whether at law or in equity, and by the exercise of judicial discretion in accordance with general principles of equity.

3. The Authority has the power to enter into the Supplemental Indenture, the Ground Lease Amendment and the Lease Supplement, each of which has been duly authorized, executed and delivered by the Authority, and which are enforceable against the Authority in accordance with their respective terms, except as such enforcement may be limited by laws relating to bankruptcy, insolvency, reorganization, receivership, arrangement, moratorium and other laws affecting creditors' rights, by equitable principles, whether at law or in equity, and by the exercise of judicial discretion in accordance with general principles of equity.

4. The City has the power to enter into the Lease Supplement and the Ground Lease Amendment, each of which has been duly authorized, executed and delivered by the City, and which are enforceable against the City in accordance with their respective terms, except as such enforcement may be limited by laws relating to bankruptcy, insolvency, reorganization, receivership, arrangement, moratorium and other laws affecting creditors' rights, by equitable principles, whether at law or in equity, and by the exercise of judicial discretion in accordance with general principles of equity.

5. Under existing laws of the Commonwealth of Pennsylvania (the "Commonwealth"), the interest on the 2017 Bonds is free from Pennsylvania personal income taxation and Pennsylvania corporate net income taxation, but such exemption does not extend to gift, estate, succession or inheritance taxes or any other taxes not levied or assessed directly on the 2017 Bonds or the interest thereon.

6. Interest on the 2017 Bonds is excluded from gross income for purposes of federal income taxation under existing statutes, regulations, rulings and court decisions. The opinion set forth in the preceding sentence is subject to the condition that the Authority and the City comply with all applicable federal income tax law requirements that must be satisfied subsequent to the issuance of the 2017 Bonds in order that interest thereon continues to be excluded from gross income for purposes of federal income taxation. The Authority and the City have covenanted to comply with all such requirements. Failure to comply with certain of such requirements could cause the interest on the 2017 Bonds to be includable in gross income retroactive to the date of issuance of the 2017 Bonds. Interest on the 2017 Bonds is not treated as an item of tax preference under Section 57 of the Code for purposes of the individual and corporate alternative minimum taxes; however, under the Code, to the extent that interest on the 2017 Bonds is a component of a corporate holder's "adjusted current earnings," a portion of that interest may be subject to the corporate alternative minimum tax. We express no opinion regarding any other federal tax consequences relating to the 2017 Bonds or the receipt of interest thereon.

We express no opinion herein on the adequacy, completeness or accuracy of any official statement, placement memorandum or other disclosure document pertaining to the offering of the 2017 Bonds. We also express no opinion as to the validity or enforceability of any provision which purports to require that provisions of an agreement may be amended or waived only in writing or as to the availability of specific performance or other equitable relief.

We call to your attention that the 2017 Bonds do not pledge the general credit or taxing power of the Commonwealth or any political subdivision, agency or instrumentality of the Commonwealth, nor shall the Commonwealth or any political subdivision, agency or instrumentality thereof be liable for the payment of the principal of or interest on the 2017 Bonds (other than the Authority, to the limited extent described herein).

This opinion is limited to the federal laws of the United States and the laws of the Commonwealth as in effect on the date hereof, and we express no opinion with respect to the laws of any other state or jurisdiction.

This opinion is limited to the matters expressly stated herein. No implied opinions are to be inferred to extend this opinion beyond the matters expressly stated herein. This opinion is expressed as of the date hereof, and we express no opinion as to any matter not set forth in the numbered paragraphs herein. We do not assume any obligation to update or supplement this opinion to reflect, or otherwise advise you of, any facts or circumstances which may hereafter come to our attention or any changes in facts, circumstances or law which may hereafter occur. This opinion is rendered solely for your benefit and may be relied upon by you solely in connection with the transaction contemplated hereby and may not be relied upon by you for any other purpose, or by any other person for any purpose, in each case without our written consent.

Very truly yours,

## APPENDIX G

### BOOK-ENTRY ONLY SYSTEM

#### General

*The information set forth herein concerning The Depository Trust Company, New York, New York (“DTC”) and the book-entry system described below has been extracted from materials provided by DTC for such purpose, is not guaranteed as to accuracy or completeness and is not to be construed as a representation by the Authority, the City, the Trustee, or the Underwriters. The websites referenced below are included for reference only and the information contained therein is not incorporated by reference in this Official Statement.*

DTC will act as securities depository for the 2017 Bonds under a book-entry system with no physical distribution of the 2017 Bonds made to the public. The 2017 Bonds will initially be issued as fully-registered securities registered in the name of Cede & Co. (DTC’s partnership nominee), or such other name as may be requested by an authorized representative of DTC. One fully-registered bond certificate will be issued for each maturity of the 2017 Bonds, each in the aggregate principal amount of such maturity, and will be deposited with DTC.

DTC, the world’s largest depository, is a limited-purpose trust company organized under the New York Banking Law, a “banking organization” within the meaning of the New York Banking Law, a member of the Federal Reserve System, a “clearing corporation” within the meaning of the New York Uniform Commercial Code, and a “clearing agency” registered pursuant to the provisions of Section 17A of the Securities Exchange Act of 1934, as amended. DTC holds and provides asset servicing for over 3.5 million issues of U.S. and non-U.S. equity issues, corporate and municipal debt issues, and money market instruments (from over 100 countries) that DTC’s participants (“Direct Participants”) deposit with DTC. DTC also facilitates the post-trade settlement among Direct Participants of sales and other securities transactions in deposited securities, through electronic computerized book-entry transfers and pledges between Direct Participants’ accounts. This eliminates the need for physical movement of securities certificates. Direct Participants include both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, clearing corporations, and certain other organizations. DTC is a wholly-owned subsidiary of The Depository Trust & Clearing Corporation (“DTCC”). DTCC is the holding company for DTC, National Securities Clearing Corporation and Fixed Income Clearing Corporation, all of which are registered clearing agencies. DTCC is owned by the users of its regulated subsidiaries. Access to the DTC system is also available to others such as both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, and clearing corporations that clear through or maintain a custodial relationship with a Direct Participant, either directly or indirectly (“Indirect Participants”). DTC has a Standard & Poor’s rating of “AA+”. The DTC rules applicable to its Participants are on file with the Securities and Exchange Commission. More information about DTC can be found at [www.dtcc.com](http://www.dtcc.com).

Purchases of the 2017 Bonds under the DTC system must be made by or through Direct Participants, which will receive a credit for the 2017 Bonds on DTC’s records. The ownership interest of each actual purchaser of each 2017 Bond (“Beneficial Owner”) is in turn to be recorded on the Direct and Indirect Participants’ records. Beneficial Owners will not receive written confirmation from DTC of their purchase. Beneficial Owners are, however, expected to receive written confirmations providing details of the transaction, as well as periodic statements of their holdings, from the Direct or Indirect Participant through which the Beneficial Owner entered into the transaction. Transfers of ownership interests in the 2017 Bonds are to be accomplished by entries made on the books of Direct and Indirect Participants acting on behalf of Beneficial Owners. Beneficial Owners will not receive certificates representing their ownership interests in the 2017 Bonds, except in the event that use of the book-entry system for the 2017 Bonds is discontinued.

To facilitate subsequent transfers, all 2017 Bonds deposited by Direct Participants with DTC are registered in the name of DTC's partnership nominee, Cede & Co., or such other name as may be requested by an authorized representative of DTC. The deposit of 2017 Bonds with DTC and their registration in the name of Cede & Co. or such other DTC nominee does not effect any change in beneficial ownership. DTC has no knowledge of the actual Beneficial Owners of the 2017 Bonds; DTC's records reflect only the identity of the Direct Participants to whose accounts such 2017 Bonds are credited, which may or may not be the Beneficial Owners. The Direct and Indirect Participants will remain responsible for keeping account of their holdings on behalf of their customers.

Conveyance of notices and other communications by DTC to Direct Participants, by Direct Participants to Indirect Participants, and by Direct and Indirect Participants to Beneficial Owners will be governed by arrangements among them, subject to any statutory or regulatory requirements as may be in effect from time to time. Beneficial Owners of 2017 Bonds may wish to take certain steps to augment transmission to them of notices of significant events with respect to the 2017 Bonds, such as redemptions, defaults and proposed amendments to the bond documents. For example, Beneficial Owners of 2017 Bonds may wish to ascertain that the nominee holding the 2017 Bonds for their benefit has agreed to obtain and transmit notices to Beneficial Owners. In the alternative, Beneficial Owners may wish to provide their names and addresses to the Trustee and request that copies of the notices be provided directly to them.

Redemption notices shall be sent to DTC. If less than all of the 2017 Bonds within a maturity are being redeemed, DTC's practice is to determine by lot the amount of the interest of each Direct Participant in such maturity of the 2017 Bonds to be redeemed.

Neither DTC nor Cede & Co. (nor such other DTC nominee) will consent or vote with respect to the 2017 Bonds unless authorized by a Direct Participant in accordance with DTC's MMI Procedures. Under its usual procedures, DTC mails an Omnibus Proxy to the Authority as soon as possible after the record date. The Omnibus Proxy assigns Cede & Co.'s consenting or voting rights to those Direct Participants to whose accounts the 2017 Bonds are credited on the record date (identified in a listing attached to the Omnibus Proxy).

Payments of principal and redemption price of, and interest on, the 2017 Bonds will be made to Cede & Co., or such other nominee as may be requested by an authorized representative of DTC. DTC's practice is to credit Direct Participants' accounts upon DTC's receipt of funds and corresponding detail information from the Authority or the Trustee, on the payable date in accordance with their respective holdings shown on DTC's records. Payments by Direct and Indirect Participants to Beneficial Owners will be governed by standing instructions and customary practices, as is the case with securities held for the accounts of customers in bearer form or registered in "street name," and will be the responsibility of such Direct and Indirect Participants and not of DTC (or its nominee), the Authority, the City or the Trustee, subject to any statutory or regulatory requirements as may be in effect from time to time. Payment of principal and redemption price of, and interest on, the 2017 Bonds to Cede & Co. (or such other nominee as may be requested by an authorized representative of DTC) is the responsibility of the Authority or the Trustee, disbursement of such payments to Direct Participants shall be the responsibility of DTC, and disbursement of such payments to the Beneficial Owners shall be the responsibility of Direct and Indirect Participants.

**THE AUTHORITY, THE CITY, THE TRUSTEE, AND THE UNDERWRITERS CANNOT AND DO NOT GIVE ANY ASSURANCES THAT DTC WILL DISTRIBUTE TO ITS PARTICIPANTS OR THAT DIRECT PARTICIPANTS OR INDIRECT PARTICIPANTS WILL DISTRIBUTE TO BENEFICIAL OWNERS OF THE 2017 BONDS (A) PAYMENTS OF PRINCIPAL OR REDEMPTION PRICE OF, OR INTEREST ON, THE 2017 BONDS, OR (B) CONFIRMATION OF OWNERSHIP INTERESTS IN THE 2017 BONDS, OR (C)**



**REDEMPTION OR OTHER NOTICES, OR THAT THEY WILL DO SO ON A TIMELY BASIS, OR THAT DTC, DIRECT PARTICIPANTS OR INDIRECT PARTICIPANTS WILL SERVE AND ACT IN THE MANNER DESCRIBED IN THIS OFFICIAL STATEMENT. THE CURRENT “RULES” APPLICABLE TO DTC ARE ON FILE WITH THE SECURITIES AND EXCHANGE COMMISSION AND THE CURRENT “PROCEDURES” OF DTC TO BE FOLLOWED IN DEALING WITH ITS PARTICIPANTS ARE ON FILE WITH DTC.**

**NONE OF THE AUTHORITY, THE CITY, THE TRUSTEE, OR THE UNDERWRITERS WILL HAVE ANY RESPONSIBILITY OR OBLIGATION TO DTC PARTICIPANTS, BENEFICIAL OWNERS OR OTHER NOMINEES OF SUCH BENEFICIAL OWNERS FOR: (A) SENDING TRANSACTION STATEMENTS; (B) MAINTAINING, SUPERVISING OR REVIEWING THE ACCURACY OF ANY RECORDS MAINTAINED BY DTC OR ANY DTC PARTICIPANT OR OTHER NOMINEES OF SUCH BENEFICIAL OWNERS; (C) PAYMENT OR THE TIMELINESS OF PAYMENT BY DTC TO ANY DTC PARTICIPANT, OR BY ANY DTC PARTICIPANT OR OTHER NOMINEES OF BENEFICIAL OWNERS TO ANY BENEFICIAL OWNER, OF ANY AMOUNT DUE IN RESPECT OF THE PRINCIPAL OR REDEMPTION PRICE OF, OR INTEREST ON, THE 2017 BONDS; (D) DELIVERY OR TIMELY DELIVERY BY DTC TO ANY DTC PARTICIPANT, OR BY ANY DTC PARTICIPANT OR OTHER NOMINEES OF BENEFICIAL OWNERS TO ANY BENEFICIAL OWNERS, OF ANY NOTICE (INCLUDING NOTICE OF REDEMPTION) OR OTHER COMMUNICATION WHICH IS REQUIRED TO BE GIVEN TO HOLDERS OR OWNERS OF THE 2017 BONDS; (E) THE SELECTION OF THE BENEFICIAL OWNERS TO RECEIVE PAYMENT IN THE EVENT OF ANY PARTIAL REDEMPTION OF 2017 BONDS; OR (F) ANY ACTION TAKEN BY DTC OR ITS NOMINEE AS THE REGISTERED OWNER OF THE 2017 BONDS.**

#### **Discontinuation of Book-Entry Only System**

DTC may discontinue providing its services as depository with respect to the 2017 Bonds at any time by giving reasonable notice to the Authority or the Trustee. Under such circumstances, in the event that a successor depository is not obtained, 2017 Bond certificates are required to be printed and delivered.

The City may decide to discontinue use of the system of book-entry-only transfers through DTC (or a successor securities depository). In that event, 2017 Bond certificates will be printed and delivered.

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