

---

---

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

---

**FORM 11-K**

---

**ANNUAL REPORT PURSUANT TO SECTION 15 (d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the fiscal year ended December 31, 2016

OR

**TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission file number 1-6659

---

A. Full title of the plan and the address of the plan, if different from that of the issuer named below:

**Aqua America, Inc.  
401(k) Plan**

B. Name of issuer of the securities held pursuant to the plan and the address of its principal executive office:

**AQUA AMERICA, INC.  
762 W. Lancaster Avenue  
Bryn Mawr, PA 19010**

---

---

---

[Table of Contents](#)

*Aqua America, Inc. 401(k) Plan*

---

Table of Contents

December 31, 2016 and 2015

	<u>Page</u>
<a href="#">Report of Independent Registered Public Accounting Firm</a>	1
<b>Financial Statements</b>	
<a href="#">Statements of Net Assets Available for Benefits</a>	2
<a href="#">Statements of Changes in Net Assets Available for Benefits</a>	3
<a href="#">Notes to Financial Statements</a>	4
<b>Supplementary Information</b>	
<a href="#">Schedule H, Line 4(i) - Schedule of Assets (Held at End of Year)</a>	14
<a href="#">Signature</a>	16
<a href="#">Exhibit Index</a>	17
<a href="#">Exhibit 23.1</a>	

**Report of Independent Registered Public Accounting Firm**

Plan Participants and Plan Administrator  
Aqua America, Inc. 401(k) Plan

We have audited the accompanying statements of net assets available for benefits of the Aqua America, Inc. 401(k) Plan (the “Plan”) as of December 31, 2016 and 2015, and the related statements of changes in net assets available for benefits for the years then ended. These financial statements are the responsibility of the Plan’s management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2016 and 2015, and the changes in net assets available for benefits for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

The supplemental information in the accompanying schedule H, Line 4(i) – Schedule of Assets (Held at End of Year) as of December 31, 2016 has been subjected to audit procedures performed in conjunction with the audit of the Plan’s financial statements. The supplemental information is presented for the purpose of additional analysis and is not a required part of the financial statements but includes supplemental information required by the Department of Labor’s Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. The supplemental information is the responsibility of the Plan’s management. Our audit procedures included determining whether the supplemental information reconciles to the financial statements or the underlying accounting and other records, as applicable, and performing procedures to test the completeness and accuracy of the information presented in the supplemental information. In forming our opinion on the supplemental information in the accompanying schedule, we evaluated whether the supplemental information, including its form and content, is presented in conformity with the Department of Labor’s Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. In our opinion, the supplemental information in the accompanying schedule is fairly stated, in all material respects, in relation to the financial statements as a whole.

/s/ Baker Tilly Virchow Krause, LLP

Philadelphia, Pennsylvania  
June 16, 2017

---

[Table of Contents](#)

*Aqua America, Inc. 401(k) Plan*

---

**Statements of Net Assets Available for Benefits  
December 31, 2016 and 2015**

	2016	2015
<b>Assets</b>		
Investments, at fair value:		
Mutual funds	\$113,531,701	\$110,833,860
Aqua America, Inc. common stock	58,695,513	57,429,479
Stable value common trust fund	<u>11,240,591</u>	<u>10,380,058</u>
Total investments at fair value	183,467,805	178,643,397
Receivables:		
Employer contributions receivable	2,092,964	1,988,115
Participant contributions receivable	144,736	143,050
Notes receivable from participants	<u>4,364,972</u>	<u>4,528,316</u>
Total receivables	6,602,672	6,659,481
Cash and cash equivalents	20,000	—
Total assets	<u>190,090,477</u>	<u>185,302,878</u>
<b>Liabilities</b>		
Accrued expenses	65,968	64,816
Excess participant contributions payable	—	17,261
Total liabilities	<u>65,968</u>	<u>82,077</u>
Net Assets Available for Benefits	<u>\$190,024,509</u>	<u>\$185,220,801</u>

*See notes to financial statements.*

---

[Table of Contents](#)

*Aqua America, Inc. 401(k) Plan*

---

**Statements of Changes in Net Assets Available for Benefits  
Years Ended December 31, 2016 and 2015**

	2016	2015
<b>Additions</b>		
Investment income:		
Net appreciation in fair value of investments	\$ 4,813,951	\$ 303,734
Interest and dividends	5,742,986	6,817,827
Total investment income	<u>10,556,937</u>	<u>7,121,561</u>
Interest income on notes receivable from participants	182,702	181,626
Contributions:		
Employer	4,971,514	4,836,896
Participants	7,794,723	7,576,426
Participant rollovers	319,779	362,586
Other	25,000	25,000
Total contributions	<u>13,111,016</u>	<u>12,800,908</u>
Total additions	<u>23,850,655</u>	<u>20,104,095</u>
<b>Deductions</b>		
Benefits paid to participants	(18,889,106)	(13,300,925)
Administrative expenses	(157,841)	(178,513)
Total deductions	<u>(19,046,947)</u>	<u>(13,479,438)</u>
Net increase in net assets	4,803,708	6,624,657
<b>Net Assets Available for Benefits</b>		
Beginning of year	185,220,801	178,596,144
End of year	<u>\$190,024,509</u>	<u>\$185,220,801</u>

*See notes to financial statements.*

***Aqua America, Inc. 401(k) Plan***

---

**Notes to Financial Statements  
December 31, 2016 and 2015**

**Note 1—Description of Plan**

The following description of the Aqua America, Inc. 401(k) Plan (the “Plan”) is provided for general information purposes only. Participants should refer to the plan document for a more complete description of the Plan’s provisions.

**General**

The Plan is a defined contribution plan sponsored by Aqua America, Inc. (the “Plan Sponsor” and the “Plan Administrator”). Direct and indirect subsidiaries of Aqua America, Inc. that adopt the Plan are participating employers. All participating employers are referred to herein as the “Company”. The Plan’s trustee is T. Rowe Price Trust Company (the “Trustee”). The Plan is designed to conform to all of the provisions of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”) and with the applicable provisions of the Internal Revenue Code (“IRC”) and the regulations thereunder.

**Eligibility**

Covered employees are any employees other than: (i) bargaining unit employees unless their union contract provides for participation in the Plan, (ii) leased employees, (iii) nonresident aliens, and (iv) persons performing services who are classified by the Company as other common law employees.

There are five active groups of covered employees designated as follows:

Active Groups:

- Group 1 Covered Employee: any covered employee who was a participant in the Aqua America, Inc. Thrift Plan on December 31, 2007.
- Group 3 Covered Employee: any covered employee of the Local 542 union hired on/after January 1, 2014 and Aqua Resources.
- Group 4 Covered Employee: any covered employee who was a participant in the Personal Savings Plan for Local 473 Employees of the Philadelphia Suburban Division of Aqua Pennsylvania, Inc. on December 31, 2007.
- Group 6 Covered Employee: any covered employee (i) whose date of hire or rehire with Aqua Ohio Water Company was on or after January 1, 2001 and (ii) who is represented by one of the following unions: the International Union of Operating Engineers Local Union 18S (Tiffin District) except an employee hired on or after October 31, 2013, Utility Workers Union of America, AFL-CIO Local Union No. 434 (Marion District), and Utility Workers Union of America, AFL-CIO Local No. 397 (Ashtabula District). In addition, any covered employee (i) whose date of hire with Aqua Ohio Water Company was prior to January 1, 2001, (ii) who has remained continuously employed by Ohio-American Water Company and, after April 30, 2012, by Aqua Ohio Water Company, and (iii) who is represented by one of the following unions: the International Union of Operating Engineers Local Union 18S (Tiffin District), Utility Workers Union of America, AFL-CIO Local Union No. 434 (Marion District), and Utility Workers Union of America, AFL-CIO Local No. 397 (Ashtabula District).

***Aqua America, Inc. 401(k) Plan***

---

**Notes to Financial Statements  
December 31, 2016 and 2015**

- Group 8 Covered Employee: any covered employee of Aqua North Carolina who was previously in Group 3, but not a participant in the Aqua America, Inc. Thrift Plan on December 31, 2007. Employees hired or rehired by Aqua North Carolina after May 12, 2014 are also participants in Group 8. Aqua North Carolina employees who are not eligible for Group 8 are employees who are under a collective bargaining agreement (unless their collective bargaining agreement provides for participation in the Plan), leased employees, and nonresident aliens. This group is also comprised of all participants from Group 2 and Group 3, with the exception of Local 542 and Aqua Resources participants as noted above. Group 2 participants include former Consumers Water Company union and non-union employees hired before April 1, 2003, and Group 3 includes any covered employee who was a participant in the Plan on December 31, 2007; any person who is a covered employee of any other entity that becomes an affiliate of Aqua America, Inc. on or after April 1, 2003 and that adopts the Plan as a participating employer; any covered employee hired or rehired on or after April 1, 2003 (except an employee rehired after March 2003 and prior to August 6, 2003) who was eligible to participate in another 401(k) plan of an employer; any covered employee represented by the International Union of Operating Engineers Local Union 18S (Tiffin District) hired on or after October 31, 2013; and any employee, other than an employee classified as a seasonal employee shall become a participant in the Plan on the later of the employee's employment commencement date or the date in which the employee becomes a covered employee.

In addition, any seasonal employee shall become a participant in the Plan as of the first day of a calendar quarter coincident with or next following the date on which the employee first completes one year of service, provided the employee is a covered employee on such date.

**Contributions**

Any newly hired or rehired eligible employee is automatically enrolled in the Plan at a deferral of 3% of eligible compensation as soon as practical following a 30-day period, unless they elect otherwise. Participants may elect to contribute from 1% to 25% (15% for participants who are highly compensated) of their pre-tax eligible compensation pursuant to a salary deferral election, up to an annual maximum permitted under applicable laws and regulations governing 401(k) plans of \$18,000 in 2016 and 2015, which is partially matched by the Company. Additionally, participants who are age 50 or who will attain age 50 prior to the end of the Plan year may make additional deferral contributions ("Catch-Up"), provided the participant made the maximum amount of deferral contributions permitted under the Plan. The maximum annual amount of allowable catch-up contributions for 2016 and 2015 is \$6,000. Participants may choose to make after-tax deferral contributions as a Roth contribution ("Roth") instead of or in addition to pre-tax deferral contributions, subject to the same limitations, which may be partially matched by the Company. The Plan also allows participants to invest from 1% to 10% of their after-tax compensation, which is not matched by the Company. Plan participants may make transfers between funds or suspend their contributions at any time. They may also contribute amounts representing distributions from other qualified defined benefit or contribution plans ("Rollovers").

***Aqua America, Inc. 401(k) Plan***

---

**Notes to Financial Statements  
December 31, 2016 and 2015**

The Plan provides for employer contributions as follows:

*Employer Matching Contributions*

Matching contributions are made to the Plan in the form of cash that is used for the purchase of Aqua America, Inc. common stock. Each participant may elect to transfer amounts in their account which are invested in Aqua America, Inc. common stock to another investment fund under the Plan, subject to procedures established by the Plan Administrator.

- Groups 1 and 3: The Company will make a matching contribution equal to 50% of the first 6% of a participant's eligible compensation that is contributed to the Plan as a pre-tax deferral contribution or a Roth deferral contribution.
- Group 4: The Company will make a matching contribution equal to 50% of the first 4% of a participant's eligible compensation that is contributed to the Plan as a pre-tax deferral contribution or a Roth deferral contribution.
- Group 6: The Company will make a matching contribution equal to 100% of the first 3% of a participant's eligible compensation that is contributed to the Plan as a pre-tax deferral contribution or a Roth deferral contribution.
- Group 8: The Company will make a matching contribution equal to 100% of the first 2% of the participant's eligible compensation that is contributed to the Plan as a pre-tax deferral contribution or a Roth deferral contribution. The Company will also make a matching contribution equal to 50% of the next 4% of eligible compensation that is contributed as a pre-tax deferral contribution or a Roth deferral contribution.

*Discretionary Contributions*

The Company may make additional discretionary contributions to the Plan for the benefit of active participants. Discretionary contributions are allocated to active Group 1, Group 3 and Group 8 participant accounts on a pro-rated basis based on each participant's compensation compared to the compensation of all active participants in Group 1, Group 3 and Group 8. The other groups in the plan are not eligible for discretionary contributions. This discretionary contribution will be made to the Plan in the form of cash that is used for the purchase of Aqua America, Inc. common stock. The Company did not make any discretionary contributions during 2016 and 2015.

*Non-Discretionary Contributions*

The Company will make additional non-discretionary contributions of 5.25% of eligible hourly wages to the Plan for the benefit of active Group 6 participants who qualify for a Company "Enhanced Match", defined as 100% of the first 3% and 50% of the next 2% of eligible compensation contributed. The Company made such non-discretionary contributions for 2016 and 2015 of \$153,873 and \$143,173, respectively.

***Aqua America, Inc. 401(k) Plan***

---

**Notes to Financial Statements  
December 31, 2016 and 2015**

*Employer Profit Sharing Contributions*

The Company may, at its discretion, make a profit sharing contribution to the Plan to benefit all Group 3 eligible employees. The profit sharing contribution will be made in the form of cash and into participant-directed accounts. The Company made profit sharing contributions for 2016 and 2015 of \$222,336 and \$237,813, respectively.

*Employer Performance Contributions*

The Company may, at its discretion, make an employer performance contribution on behalf of eligible participants if certain established performance goals are achieved. Performance contributions are to be made to the Plan in the form of cash, Company stock, or any combination thereof. The Company did not make any performance contributions during 2016 and 2015.

*Excess Contributions*

In order to satisfy the relevant nondiscrimination provisions of the Plan for the year ended December 31, 2015, the Plan reimbursed \$17,261 in excess contributions to select participants prior to the Internal Revenue Service ("IRS") deadline for correction of excess deferrals of April 15<sup>th</sup> 2016. The excess contributions are recorded as a liability and as a reduction of participant contribution. No such reimbursements for excess contributions were required based on the testing results of the Plan for the year ended December 31, 2016.

*Year-End Corporate Contribution*

The Company may make a discretionary year-end corporate contribution, of up to 3% of an employee's eligible compensation, for participants of Group 8 who were employed on the last day of the Plan year. This contribution will be made in cash into participant-directed accounts. The Company made year-end corporate contributions for 2016 and 2015 in the amount of \$1,815,445 and \$1,698,687, respectively.

*Other Contributions*

The Plan maintains an Administrative Budget account funded by the Plan's Trustee. The funds in the account are treated as Plan assets and must be used only for payment of permissible Plan expenses or allocation to participants. The Administrative Budget funds are invested in the T. Rowe Price Prime Reserve Fund. The T. Rowe Price Prime Reserve Fund is not an available investment option for plan participants. All funds utilized from this account are treated as administrative expenses on the Statements of Changes in Net Assets Available for Benefits. Contributions to the Administrative Budget account were \$25,000 for 2016 and 2015. Administrative Budget account funds utilized amounted to \$20,289 and \$35,163 during 2016 and 2015, respectively. The balance in the Administrative Budget account was \$6,413 and \$1,702 as of December 31, 2016 and 2015, respectively.

**Participants' Accounts**

Each participant's account is credited with the participant's contribution and allocations of the Company's contribution and plan earnings or losses. Allocations are based on participant contributions or account balances, as defined by the plan document. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

---

[Table of Contents](#)

**Aqua America, Inc. 401(k) Plan**

---

**Notes to Financial Statements  
December 31, 2016 and 2015**

**Vesting**

Each participant will always be 100% vested in the balances in their deferral contribution, voluntary contribution, discretionary contribution, employer performance contribution, and rollover contribution accounts. Group 3 and Group 8 covered employees become 100% vested in their employer matching and employer profit sharing/corporate contributions after three years of service\*. Group 6 covered employees become 100% vested in their employer non-discretionary contribution upon completing a year of service\*.

Vesting for Group 1 and Group 4 covered employees' employer matching contributions is in accordance with the following schedule:

Years of Service *	% Vested
Less than 2	0%
2 but less than 3	20%
3 but less than 4	40%
4 but less than 5	60%
5 but less than 6	80%
6 or more	100%

\* A "year of service" for vesting purposes means each plan year (the calendar year) in which the participant is credited with 1,000 or more hours of service.

**Common Stock**

Matching contributions are made in the form of cash that is used for the purpose of purchasing Aqua America, Inc. common stock. Discretionary contributions may be made in cash into participant directed accounts or for the purchase of Aqua America, Inc. common stock. Each participant may elect to transfer amounts in their account invested in common stock to another investment option under the Plan, subject to procedures established by the Plan Administrator.

Participants who are 100% vested in this fund have an opportunity to elect that any dividends with respect to Aqua America, Inc. common stock held be paid in cash to the participant's account or allocated to their investment mix held by the Trustee rather than allocated to their account for investment in additional shares of Aqua America, Inc. common stock.

**Investment Options**

Participants can direct, at the time they enroll in the Plan, that their salary deferral and voluntary contributions be invested entirely in one of the funds offered by the Plan or divided among the funds. The Plan also permits participants to acquire an interest in Aqua America, Inc. common stock. Participants may change their investment allocation instructions and reinvest their contributions into a different fund or funds at any time.

*Aqua America, Inc. 401(k) Plan*

---

**Notes to Financial Statements  
December 31, 2016 and 2015**

**Payment of Benefits**

Distributions from the Plan are normally made shortly after the participant's retirement, disability, or death. If the participant's account balance does not exceed \$1,000, the participant will receive a lump-sum distribution as soon as practicable following termination of employment. If the account balance is greater than \$1,000 but less than \$5,000 and the participant does not elect to receive the distribution directly, then the Trustee will pay the distribution in a direct rollover to an individual retirement plan designated by the Plan Administrator. Withdrawals will be made in cash or shares of Aqua America, Inc. common stock, to the extent permitted by law. Under certain circumstances, a participant may withdraw all or a portion of the employee contributions while still employed.

**Notes Receivable from Participants**

Participants may borrow funds from their account balance in amounts that do not exceed the lesser of \$50,000 or 50% of their vested account balance for a period not to exceed five years, unless the note is used to purchase the participant's principal residence. Repayment for active employees is made through payroll deductions. All new notes receivable are issued at an interest rate of prime plus 1%. The notes are secured by the balance in the participant's account and bear interest at rates that range from 4.25% to 4.50% and apply to loans issued between January 1, 2010 to December 31, 2016.

**Plan Forfeitures**

Participants who take a distribution prior to being fully vested forfeit their portion of non-vested employer contributions unless they resume employment as a Covered Employee and repay the full amount of the distribution to the Plan prior to the earlier of (a) five years after the date on which they were reemployed, or (b) the close of the first period of five consecutive one-year breaks in service, commencing after the distribution, in which case the non-vested amount, unadjusted by any subsequent gains or losses, shall be restored.

Forfeited non-vested accounts are used first to restore any non-vested amounts and shall then be applied as promptly as practicable to reduce employer contributions. Employer contributions were reduced by \$192,635 and \$113,946 during 2016 and 2015, respectively, as a result of forfeited non-vested accounts. The balance in the forfeiture account was \$1,135 and \$19,944 as of December 31, 2016 and 2015, respectively.

**Note 2—Summary of Significant Accounting Policies**

A summary of the significant accounting policies consistently applied in the preparation of the accompanying financial statements follows:

**Basis of Accounting**

The accompanying financial statements have been prepared using the accrual basis of accounting.

***Aqua America, Inc. 401(k) Plan***

---

**Notes to Financial Statements  
December 31, 2016 and 2015**

**Use of Estimates**

The preparation of the financial statements, in conformity with accounting principles generally accepted in the United States of America, requires plan management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure at the date of the financial statements, as well as reported amounts of additions and deductions during the reporting period. Significant estimates include the determination of the fair value of Plan assets. Actual results could differ from these estimates.

**Administration**

The Plan is administered by a committee (the “Committee”) consisting of three or more individuals selected by and who may be removed at any time by the Board of Directors of Aqua America, Inc. The Committee members may be employees of Aqua America, Inc. and may be participants in the Plan. The Committee members receive no compensation from the Plan for their services in such capacity. The Committee has extensive administrative powers in connection with the Plan, including authority to interpret the provisions of the Plan, to adopt rules for its administration and to make other decisions with respect to the Plan.

The Trustee for the Plan invests the Plan’s funds as instructed by participants. The Trustee invests funds received from contributions, investment sales, interest, and dividend income and makes distribution payments to participants.

Certain administrative expenses of the Plan are paid by the Company. The Company may, at its discretion, elect to have certain administrative expenses reimbursed by the Administrative Budget account funded by the Trustee.

**Investment Valuation and Income Recognition**

The Plan’s investments are stated at fair value. 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. The Committee determines the Plan’s valuation policies utilizing information provided by the investment advisors and Trustee. See Note 3 – “Fair Value Measurements” for a discussion on fair value measurements.

On occasion, trades or fund exchanges initiated by a Plan participant may not settle by the last day of a calendar year but will settle in the subsequent plan year. In that event, the participant’s account is credited with the cash value of such trades and fund exchanges and the cash is reported as cash and cash equivalents on the Statements of Net Assets Available for Benefits. As of December 31, 2016, and 2015, there were unsettled transactions of \$20,000 and \$0, respectively.

Dividend income is recorded on the ex-dividend date. Interest income is recorded on the accrual basis. Realized gains and losses on the sale of Aqua America, Inc. stock are based on average cost of the securities sold. Net appreciation includes the gains and losses on investments bought and sold as well as held during the year. Purchases and sales are recorded on a trade-date basis.

**Investment Fees**

Net investment returns reflect certain fees paid to the investment advisors, transfer agents, and others as further described in each fund prospectus or other published documents. These fees are deducted prior to allocation of the Plan’s investment activity and thus are not separately identifiable as an expense.

---

[Table of Contents](#)

**Aqua America, Inc. 401(k) Plan**

---

**Notes to Financial Statements  
December 31, 2016 and 2015**

**Notes Receivable from Participants**

Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Delinquent notes receivable are recorded as distributions based upon the terms of the plan document. No allowance for credit losses has been recorded as of December 31, 2016 and 2015.

**Concentration of Investments**

Concentrations in the Plan's investments which management determined to be greater than 10% of the Plan's investments are as follows:

	December 31, 2016	December 31, 2015
Aqua America, Inc. common stock	32.0%	31.4%
T. Rowe Price Retirement 2020 Fund	10.9%	11.2%
T. Rowe Price Retirement 2025 Fund	10.1%	*

\* Investment did not represent 10% or more of the Plan's investments.

**Payment of Benefits**

Benefits are recorded when paid.

**Income Taxes**

The Plan is exempt from federal income taxes under the IRC.

**Note 3—Fair Value Measurements**

The framework that the authoritative guidance establishes for measuring fair value includes a hierarchy used to classify the valuation inputs used in measuring fair value. The hierarchy prioritizes the inputs used in determining valuations into three levels. The level in the fair value hierarchy within which the fair value measurement falls is determined based on the lowest level input that is significant to the fair value measurement. The levels of the fair value hierarchy are as follows:

- Level 1—Fair value is based on unadjusted quoted prices in active markets that are accessible to the Plan for identical assets. These generally provide the most reliable evidence and are used to measure fair value whenever available.
- Level 2—Fair value is based on significant inputs, other than Level 1 inputs, that are observable either directly or indirectly for substantially the full term of the asset through corroboration with observable market data. Level 2 inputs include quoted market prices in active markets for similar assets or liabilities, quoted market prices in inactive markets for identical or similar assets, and other observable inputs.
- Level 3—Fair value is based on significant unobservable inputs. Examples of valuation methodologies that would result in Level 3 classification include option pricing models, discounted cash flows, and similar techniques.

---

[Table of Contents](#)

**Aqua America, Inc. 401(k) Plan**

**Notes to Financial Statements  
December 31, 2016 and 2015**

The following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the valuation techniques used to measure fair value for the years ended December 31, 2016 and 2015.

- Aqua America, Inc. common stock is valued at the closing price reported on the active market on which the stock is traded.
- Mutual funds are valued at the daily closing price as reported by the fund. Mutual funds held by the Plan are open-end mutual funds that are registered with the U.S. Securities and Exchange Commission. These funds are required to publish their daily NAV and to transact at that price. The mutual funds held by the Plan are deemed to be actively traded.
- The Stable Value Common Trust Fund (the "Trust") is comprised primarily of fully benefit-responsive investment contracts that are valued at the NAV of units of the Trust. The NAV is used as a practical expedient to estimate fair value. This practical expedient would not be used if it is determined to be probable that the fund will sell the investment for an amount different from the reported NAV. Participant transactions (purchases and sales) may occur daily. Under the terms of the Trust, retirement plans invested in the Trust are required to provide either 12 or 30 months' advance written notice to the trustee prior to redemption of trust units; the notice period may be shortened or waived by the trustee at its sole discretion.

The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value:

	Level 1	
	December 31, 2016	December 31, 2015
Mutual funds	\$113,531,701	\$110,833,860
Aqua America, Inc. common stock	58,695,513	57,429,479

**Investments Measured Using NAV per Share Practical Expedient**

The following table summarizes investments for which fair value is measured using the NAV per share practical expedient as of December 31, 2016 and 2015, respectively. There are no participant redemption restrictions for these investments; the redemption notice period is applicable only to the Plan.

Investment	2016 Fair Value	2015 Fair Value	Unfunded Commitment	Redemption Frequency (if currently eligible)	Redemption Notice Period
Common Trust Fund	<u>\$11,240,591</u>	<u>\$10,380,058</u>	<u>\$ 20,000</u>	Daily	12 or 30 months

*Aqua America, Inc. 401(k) Plan*

---

**Notes to Financial Statements  
December 31, 2016 and 2015**

**Note 4—Related Party and Party-in-Interest Transactions**

Certain of the Plan's investments are shares of mutual funds managed by the Trustee, therefore, these transactions qualify as party-in-interest transactions. Investment management fees paid to the Trustee during 2016 and 2015 were netted against investment returns. As discussed in Note 1, employer matching contributions are invested in the common stock of the Plan Sponsor. Participants may also elect to invest in the common stock of the Plan Sponsor. These transactions qualify as related party and party-in-interest transactions. Total purchases at market value related to the common stock of the Plan Sponsor for 2016 and 2015 were \$9,083,784 and \$6,599,862, respectively. Total sales at market value related to the common stock of the Plan Sponsor for 2016 and 2015 were \$8,413,466 and \$10,595,107, respectively. Additionally, the Plan issues loans to participants, which are secured by the participants' account balances. These transactions qualify as party-in-interest transactions.

**Note 5—Plan Termination**

Although it has not expressed any intent to do so, the Company has the right to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of plan termination, participants will become 100 percent vested in their Company contributions.

**Note 6—Tax Status**

The IRS issued a determination letter dated September 8, 2015, which stated that the Plan and related trust qualified under applicable provisions of the IRC and, therefore, are exempt from federal income taxes. This determination letter expires on January 31, 2020. The Plan has been amended since receiving the latest determination letter. The Plan Administrator and the Plan's counsel believe that the Plan is currently designed and being operated in compliance with applicable requirements of the IRC.

Accounting principles generally accepted in the United States of America require management to evaluate tax positions taken by the Plan and recognize a tax liability if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan Administrator has analyzed the tax positions taken by the Plan and has concluded that as of December 31, 2016, there are no uncertain positions taken, or expected to be taken, that would require recognition of a liability or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress. The Plan Administrator believes it is no longer subject to income tax examinations for years prior to 2014.

**Note 7—Risks 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 that such changes could materially affect participants' account balances and the amounts reported in the Statements of Net Assets Available for Benefits.

[Table of Contents](#)

*Aqua America, Inc. 401(k) Plan*

Form 5500—Schedule H—Line 4i  
Schedule of Assets (Held at End of Year)  
EIN: 23-1702594  
PN: 005  
December 31, 2016

( a )	Identity of Issue ( b )	Description of Investment ( c )	Cost ( d )	Current Value ( e )
	Mutual Fund	American Funds EuroPacific Growth Fund	N/A	\$ 1,239,137
	Mutual Fund	JP Morgan US Equity Fund	N/A	980,898
	Mutual Fund	Dodge & Cox International Stock Fund	N/A	721,275
	Mutual Fund	Victory Munder Mid-Cap Core Growth Fund	N/A	873,355
	Mutual Fund	Neuberger Berman Genesis Fund, Instl	N/A	518,163
*	Mutual Fund	T. Rowe Price Diversified Small-Cap Growth Fund	N/A	1,195,556
*	Mutual Fund	T. Rowe Price Growth Stock Fund	N/A	2,414,858
*	Mutual Fund	T. Rowe Price Retirement 2020 Fund	N/A	19,907,152
*	Mutual Fund	T. Rowe Price Retirement 2025 Fund	N/A	18,477,620
*	Mutual Fund	T. Rowe Price Retirement 2030 Fund	N/A	17,691,993
*	Mutual Fund	T. Rowe Price Retirement 2035 Fund	N/A	7,330,399
*	Mutual Fund	T. Rowe Price Retirement 2040 Fund	N/A	4,621,465
*	Mutual Fund	T. Rowe Price Retirement 2045 Fund	N/A	2,953,416
*	Mutual Fund	T. Rowe Price Retirement 2050 Fund	N/A	1,998,523
*	Mutual Fund	T. Rowe Price Retirement 2055 Fund	N/A	893,952
*	Mutual Fund	T. Rowe Price Retirement 2060 Fund	N/A	46,407
	Mutual Fund	Fidelity Balanced Fund	N/A	2,335,876
*	Mutual Fund	T. Rowe Price Retirement 2005 Fund	N/A	684,225
*	Mutual Fund	T. Rowe Price Retirement 2010 Fund	N/A	1,408,140
*	Mutual Fund	T. Rowe Price Retirement 2015 Fund	N/A	11,851,583
*	Mutual Fund	T Rowe Price Retirement Balanced Fund	N/A	580,688

---

[Table of Contents](#)

**Aqua America, Inc. 401(k) Plan**

---

**Form 5500—Schedule H—Line 4i**  
**Schedule of Assets (Held at End of Year)**  
**EIN: 23-1702594**  
**PN: 005**  
**December 31, 2016**

( a )	Identity of Issue ( b )	Description of Investment ( c )	Cost ( d )	Current Value ( e )
	Mutual Fund	Vanguard Mid-Cap Index Fund, Signal	N/A	\$ 1,936,899
	Mutual Fund	Vanguard Small-Cap Index Fund, Signal	N/A	1,353,775
	Mutual Fund	Vanguard Total International Stock Index Fund, Inv.	N/A	1,004,182
	Mutual Fund	Vanguard 500 Index Fund, Signal	N/A	3,282,687
	Mutual Fund	AllianzGI NEJ Small-Cap Value Fund, Instl	N/A	509,896
	Mutual Fund	Goldman Sachs Mid-Cap Value Fund, Instl	N/A	913,529
	Mutual Fund	Vanguard Windsor II Fund, Inv.	N/A	1,541,816
	Mutual Fund	Prudential Total Return Bond Z	N/A	4,257,821
*	Mutual Fund	T. Rowe Price Government Money	N/A	6,415
*	Common Stock	Aqua America, Inc. common stock	N/A	58,695,513
*	Common Trust Fund	T. Rowe Price Stable Value Common Trust Fund	N/A	11,240,591
*	Notes receivable from participants	Interest rates 4.25% to 4.50%	\$ —	4,364,972
				<u>\$187,832,777</u>

\* A party-in-interest as defined by ERISA

N/A Cost omitted for participant-directed investments

**SIGNATURE**

Pursuant to the requirements of the Securities Exchange Act of 1934, the Plan Administrator has duly caused this annual report to be signed by the undersigned hereunto duly authorized.

Aqua America, Inc. 401(k) Plan

Date: June 16, 2017

/s/ Christopher P. Luning

Christopher P. Luning

Secretary

Aqua America, Inc. Retirement and Employee

Benefits Committee

**EXHIBIT INDEX**

<u>Exhibit No.</u>	<u>Description</u>
23.1	Consent of Baker Tilly Virchow Krause, LLP

**EXHIBIT 23.1**

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in the Registration Statement (No. 333-148206) on Form S-8 of our report dated June 16, 2017, which appears in this annual report on Form 11-K of the Aqua America, Inc. 401(k) Plan for the year ended December 31, 2016.

/s/ Baker Tilly Virchow Krause, LLP

Philadelphia, Pennsylvania  
June 16, 2017