



# 2016 Annual Report



**Forest Park Water  
Treatment Plant**

Clearly the Finest

# CHAIRMAN'S MESSAGE



The focus of the Annual Report this year is the Forest Park Water Treatment Plant. The plant and its staff are a critical resource that allows the Authority to meet its most vital goal of providing customers with safe, reliable, economical, and high quality drinking water 365 days a year.

Providing exceptional quality water is the crucial function performed at Forest Park Water, and it is the most important promise that North Penn Water Authority makes to the customer. The entire Forest Park Water Project includes the Delaware River Pumping Station, the Bradshaw Reservoir, the Lake Galena Reservoir, and a 40-million gallon a day treatment facility. Forest Park Water continues to grow and establish itself as a regional water supplier, which was the original vision.

Please take some time to review the Annual Report which details the history, reasons for and progress in building the plant. It also explains the actual treatment processes that the water undergoes from the time it enters the plant until the finished water flows to the customers. Videos detailing the plant and processes are available online at the Authority's website, [www.npwa.org](http://www.npwa.org), or by calling the office and arranging for a presentation.

The financial reports of North Penn Water Authority continue to be strong. Revenue is utilized for operating expenses, debt reduction, investment in maintaining and upgrading Authority systems, and capital improvements.

I want to thank my fellow board members who volunteer their time to serve the North Penn Water Authority and their respective communities. In particular, I want to recognize a very special board member, Ernie Yocum, who resigned in December of 2016 due to poor health and passed away in January of this year after serving the Authority for 36 years. He was very dedicated to the Authority and will be missed.

On behalf of the entire Board of Directors, I also want to thank all of our management team members and staff for their commitment and the work they do every day to meet the Authority's most critical mission of delivering the highest quality drinking water to customers. The North Penn Water Authority employees and board members are all fully committed to this mission. As a result, the Authority's customers and municipalities can rest assured that their community's water supplier is leading the way to be among the best in the industry.



**ROBERT A. FISHER**  
CHAIRMAN

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Seated (l-r)- Marvin A. Anders, Treasurer (Souderton Borough); Robert A. Fisher, Chair (Skippack Township); Helen B. Haun, Assistant Secretary (New Britain Township).

Standing (l-r)- Paul D. Ziegler (Worcester Township); John S. Strobel, Vice-Chair (Hatfield Township); George E. Witmayer (Franconia Township); Jeffrey H. Simcox (Lansdale Borough); Kenneth V. Farrall, Secretary (Hatfield Borough); William K. Dingman (Towamencin Township); Douglas M. Johnson, Assistant Treasurer (Lower Salford Township).

## Service Award



John S. Strobel received the Pennsylvania Municipal Authorities Association 20-year Sahli Service Award in 2016 recognizing his years of service to municipal authorities.

## In Memoriam



Ernest D. Yocum, Jr., 90, who was a member of the North Penn Water Authority Board for thirty-six (36) years, passed away on January 21, 2017.

Mr. Yocum was appointed to the NPWA Board of Directors by Worcester Township on July 23, 1968, serving until December 31, 1996, and later by Towamencin Township on April 23, 2008, and served until illness caused him to retire from the board in December of 2016. During his tenure with the board, Ernest Yocum demonstrated his loyalty and dedication to the North Penn Water Authority through his service as Assistant Secretary, Secretary, and Treasurer. He also served as a member of the Engineering, Finance, Insurance, Personnel, and Forest Park Water Committees, and as Chairman of the Engineering, Insurance, and Building Committees.

## PROFESSIONAL APPOINTMENTS:

Consulting Engineer – **BCM Engineers ATC Group Services, LLC**

Solicitor – **Hamburg, Rubin, Mullin, Maxwell & Lupin**

Auditor – **Maillie LLP**

Trustee – **Bank of New York Mellon Trust Company NA**



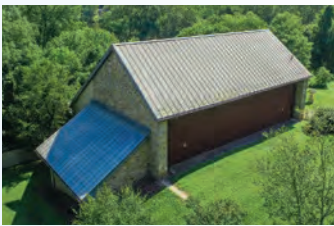
# Forest Park Water... Clearly the Finest

More than 100,000 homes and businesses in Pennsylvania's Bucks and Montgomery Counties rely on a consistent, safe and affordable supply of water that's produced by the Forest Park Water Treatment Plant.



*Forest Park Water Treatment Plant*

The Forest Park Water project includes the Delaware River Pumping Station, the Bradshaw Reservoir, the Lake Galena Reservoir and a 40-million gallon a day treatment facility.



*Pump Station, Bradshaw Reservoir, and Lake Galena*

Forest Park is jointly owned and operated by the North Penn Water (NPWA) and North Wales Water (NWWA) Authorities. The facility combines conventional treatment processes with advanced techniques, making it a state-of-the-art water treatment facility.



**Forest Park Water**



**A PARTNERSHIP**

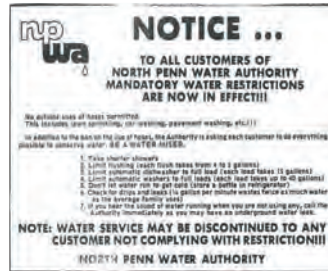


## History - 1900s - 2016

The Forest Park Water Treatment Plant is located on land that was home to the Forest Park Amusement Park in the early to mid-1900's. That is how the water treatment project got its name. The park hosted major attractions and company picnics until closing in 1968.



*Forest Park Amusement Park*



Throughout the 1960's, 70's, and 80's, groundwater shortages resulted in dangerously low water supplies. Mandatory water restrictions became a routine part of life for North Penn Water Authority's customers during summer months.

Because the regions of Bucks and Montgomery Counties relied on a 100% groundwater system, and that resource was being threatened by the demands on it, the North Penn and North Wales Water Authorities came together to find a new water source to accommodate the growth that was expected throughout the area. Together, NPWA and NWWA decided to operate a surface water system, and from that the Forest Park Water project was built. The Forest Park Water Treatment Plant treats water from Lake Galena and supplements it with water from the Delaware River.



*Delaware River*

In May of 1983, construction of the Delaware River Pumping Station was underway, but opposition to the project caused delays. It would take several years involving litigation, agreements, and court orders before the Authorities would be able to begin utilizing the surface water supply in 1989.

Water shortages were in a crisis stage in the mid 1980's. There wasn't enough supply to meet the growing demand. NPWA and NWWA had to construct a temporary Forest Park Water Plant, a short-term solution so customers could rely on surface water from Lake Galena. The final full-scale plant was finished in 1994 and equipped with state-of-the-art technology, including carbon polishing and the use of ozone.



*Temporary FPW Plant*

## Treatment Processes



The plant operators hold the highest licenses available. Technology allows the operators to freely move around and access computers throughout the plant.

The process of producing drinking water begins at the Delaware River, where untreated or "raw" water is pumped by the Delaware River Pumping Station through a two and a half mile transmission main to the Bradshaw Reservoir.

The plant operator remotely controls the release of water from the reservoir into a pipe, which travels one mile before spilling into the North Branch of the Neshaminy Creek.



*Bradshaw Reservoir*



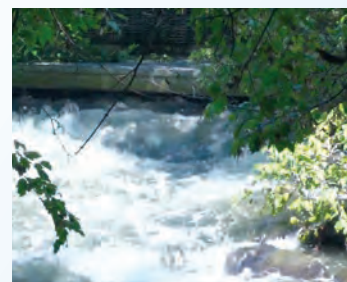
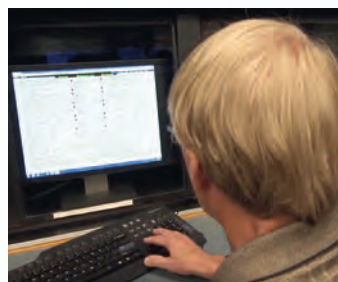
*Membrane Filtration*

During an expansion in 2007, Forest Park Water was retrofitted with the most advanced filtration process available called membrane filtration. Membrane filtration improves the quality and taste of the water. The expansion allowed an output of up to 40 million gallons a day.

2014 was a milestone year for Forest Park when Bucks County Water and Sewer Authority began purchasing 10 million gallons of water per day. A 17-mile long transmission main was extended from the treatment plant in Chalfont to Lower Bucks County.

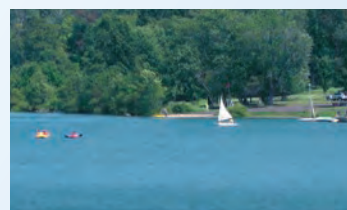
Most recently, several communities in Lower Bucks and Montgomery Counties were negatively impacted by groundwater contamination and began purchasing water in bulk from Forest Park to replace the capacity they lost from wells that had to be shut down. Due to the increase in demand for water treated by Forest Park, the treatment plant will begin a project to expand the membrane filtration system to maximize water production capacity.

Forest Park Water continues to grow and establish itself as a regional water supplier, which was the original vision.



*Plant operator releases water into Neshaminy Creek*

Water then travels about six and a half miles to Lake Galena. Lake Galena is surrounded by Peace Valley Park and was built in 1970 for flood control and drinking water supply, as well as recreational use.



*Water travels from North Branch Neshaminy Creek to Lake Galena*



Water diversion flows from the Delaware River are adjusted by Forest Park to control the level of Lake Galena, to ensure a sufficient drinking water supply, and to facilitate recreational activities. Gates located in Lake Galena release water through the dam and back into the North Branch Neshaminy Creek where it flows approximately 2 miles to the Forest Park Water intake. The intake is comprised of an inflatable rubber dam and steel bar racks. The dam creates a water pool that allows water to flow by gravity through the bar rack intake and into the raw water pump station.



*Inflatable rubber dam*

Most treatment facilities are located on the banks of their primary water source, but Forest Park is unique for this part of the country in that the Delaware River water is diverted to the plant from miles away.



As raw water enters the Forest Park Water Treatment Plant, it is pumped to the initial treatment stage of the process. First, a coagulant is added to the water to promote the clumping together of particles, such as dirt and organic matter, in a process called coagulation. Coagulant-treated water then enters a gentle mixing stage called flocculation, where smaller particle masses combine to form larger, visible clumps called “floc”.

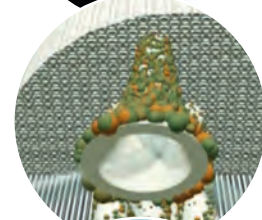
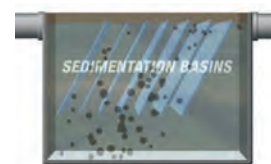


The floc-laden water enters sedimentation basins where, with the aid of special inclined plates, the majority of the solids settle to the bottom before the water flows to the next stage. Water exiting the sedimentation basins is called “clarified water.” Clarified water flows to an advanced microfiltration stage where microscopic particles are filtered out by submerged membranes. Membrane filtration is a more effective barrier than traditional media filters against the passage of microscopic particles, including potentially harmful pathogens. The entire membrane system consists of approximately 45 million hollow-tube fibers that remove impurities larger than 0.1 microns. The surface area of all the membrane fibers combined would cover just over 30 football fields.

The filtered water entering each fiber flows into a common pipe and is pumped to the next stage.

Membrane filtration is one of this plant’s most notable features and is considered the filtration technology of the future.

After water flows through the membrane filters, ozone gas is added to the water. The primary benefit of ozone gas is its powerful disinfection potential. However, it also destroys taste and odor causing compounds typically found in surface waters. Because ozone gas is short-lived, it must be generated on-site and applied immediately. The ozonated water gets pumped to granular activated carbon contactors where trace amounts of undesirable organic and chemical compounds are removed by adsorptive and biological mechanisms. This occurs as the water flows through a 6-foot deep bed of carbon media.

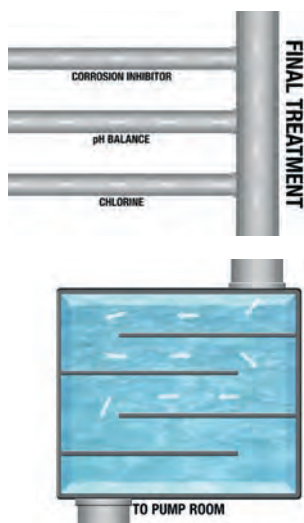


*Membrane Filtration*



In the final treatment stage, a corrosion inhibitor is added and pH is adjusted to prevent water from leaching metals from piping in home plumbing. Chlorine is also added to maintain disinfection throughout each water authority's system. Clean, sparkling water is collected in the plant's clearwell, which is a 2-million gallon underground reservoir.

Finished water flows through massive pumps for delivery to each authority's distribution system, comprised of a complex network of piping, pump stations and storage tanks. Chlorine is added at various points throughout each authority's system to ensure clean and safe water. 90% of water supplied to North Penn Water Authority's customers is surface water that is treated at Forest Park. The remaining 10% is groundwater.



It's critical that the required volume of water is supplied every day, even in the event of a prolonged power outage. Forest Park Water has on-site diesel engines that generate power to supply the whole facility at capacity, which is 40 million gallons a day. This back-up capability proved itself to be crucial in 2012 when power was lost for days following Hurricane Sandy, and the plant continued to operate without interruption. North Penn Water Authority customers never went without running water during that time.



*Backup power supply*



*FPW employees*

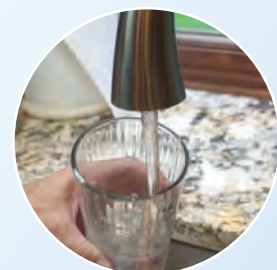


*NPWA lab testing*

Excellent water quality is assured through operational proficiency and diligent monitoring. More advanced testing is performed by NPWA's state certified laboratory. As a result, the water leaving the plant consistently surpasses all state and federal regulatory standards.

Forest Park Water received the American Water Works Association's President's Award in 2012, which recognizes the highest level of optimization with excellence in water treatment. The employees at Forest Park Water Treatment Plant continue to diligently work to maintain this premier status.

Water quality is job one. The North Penn Water Authority employees and Board members and the Forest Park Water employees are all completely committed to the mission of providing the most reliable and best quality drinking water possible. As a result, the Authority's customers and municipalities can drink with confidence knowing that the water flowing from their taps is among the best in the country.



***Forest Park Water – clearly the finest!***



*Pump Room*

Each day, high quality, affordable water is delivered by Forest Park Water to more than 100,000 homes and businesses, while also providing fire protection for the surrounding communities.

North Penn Water Authority is proud of the great value provided to its customers. The Authority's average residential customer pays less than a dollar a day for a household of water, and there's really nothing that anybody buys in their daily experience that costs the same or less and has equal or greater value.



*Hydrant flushing*



# CAPITAL IMPROVEMENTS

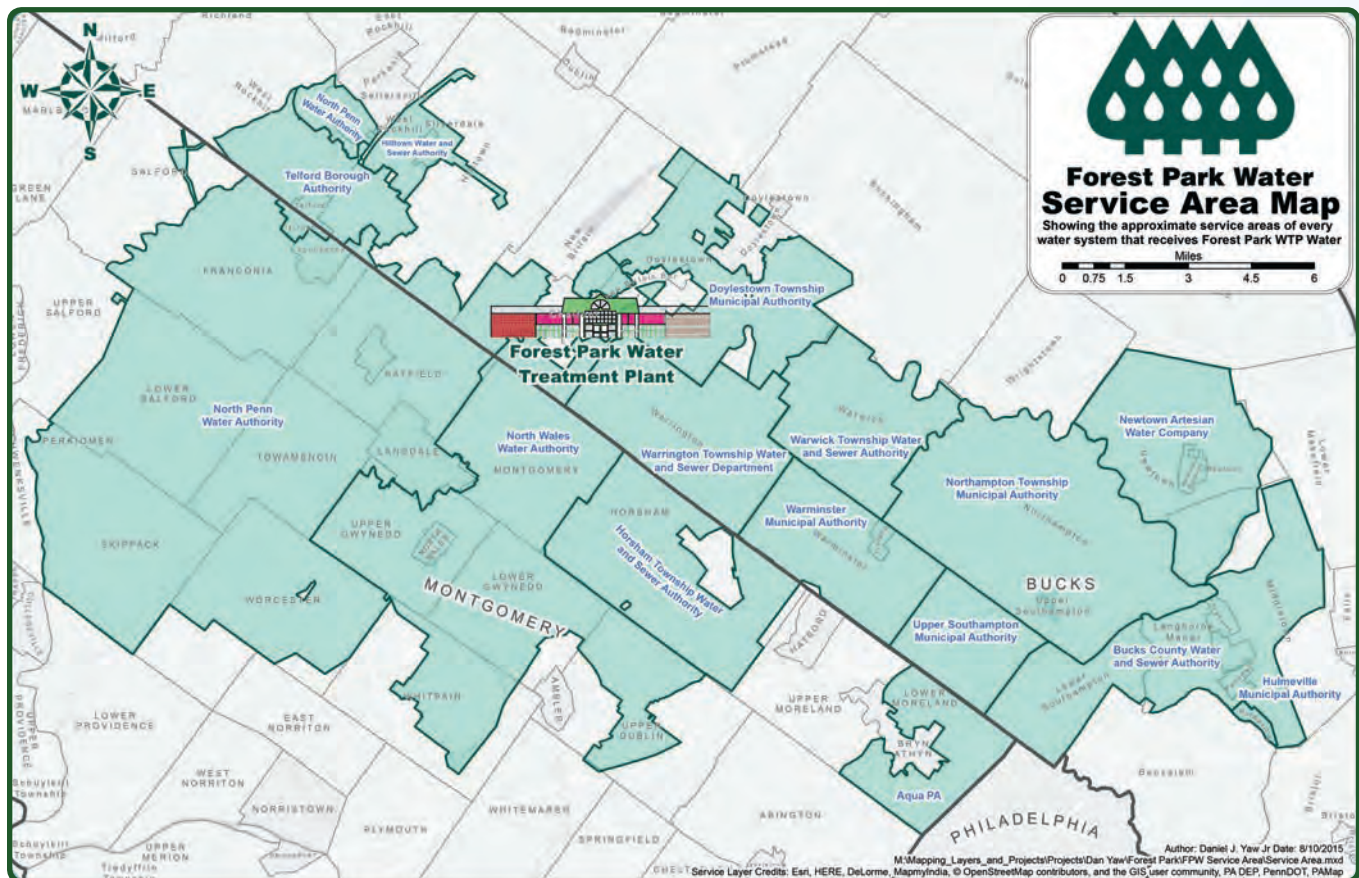
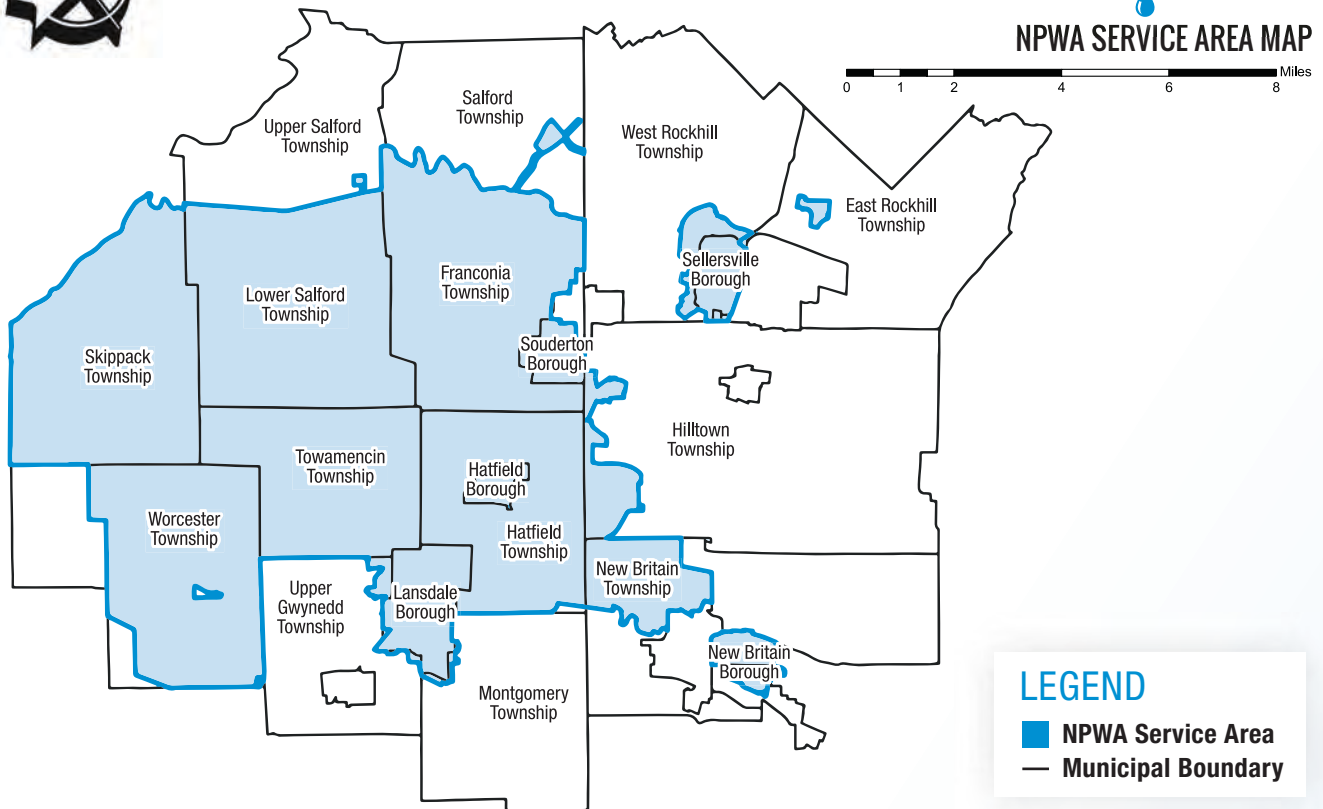
Recognizing the importance of maintaining infrastructure in order to be in a position to serve customers daily as well as to meet emergencies as they arise, the Authority spent over \$6.8 million in capital improvements in 2016. Of that amount, \$1.7 million was allocated directly to the Forest Park Water Treatment Plant and another \$1.5 million for construction of a 30-inch transmission main from the plant to provide critical redundancy of treated water to the Authority's system. Together, these expenditures ensure Authority customers receive a continuous, high quality water supply into the future. The remaining costs, among others, included installation, replacement, and servicing portions of the 575 miles of water main throughout the Authority's service area, as well as maintenance and close-out of construction of new storage tanks, new well station and engineering design, and new meters and replacements.



## WATER MAIN AND SERVICE CAPITAL IMPROVEMENT EXPENDITURES

Municipality	Location	Total Investment
<b>Water Main Infrastructure</b>		
Franconia Township	Cowpath Road Main Replacement	\$305,678
Hatfield Township	Oak Park Road Main Replacement	317,078
Lansdale Borough	Main Street Main Rehabilitation	401,452
Lansdale Borough	West 6th Street Main Replacement	72,795
New Britain Township	30-inch Transmission Main Project from FPW Treatment Plant	1,537,023
Sellersville Borough	Clymer Road Main Replacement	332,409
Sellersville Borough	9th Street Main Replacement	226,077
Sellersville Borough	Main Street Main Replacement	149,311
Souderton Borough	Montgomery Avenue Main Replacement	96,695
Towamencin Township	Woodlawn Drive Main Replacement	298,895
<b>Other Capital Infrastructure Projects</b>		
FPW Treatment Plant	Capital Improvements and Engineering	1,681,505
Franconia and Skippack Townships	New Storage Tanks (Project close-out costs)	23,912
Various Locations	Hydrant, Valve and Service Renewals	518,508
Various Locations	New Meters and Replacements	321,373
Various Locations	Project Development and Closeout	62,985
Well & Booster Stations	New well station and engineering design	456,053
		<b>\$6,801,749</b>





# NORTH PENN WATER AUTHORITY

STATEMENTS OF NET POSITION - DECEMBER 31, 2016 AND 2015

	2016	2015
<b>Assets</b>		
<b>Current Assets</b>		
Cash and cash equivalents	\$14,626,792	\$11,690,423
Accounts receivable - customers	2,294,905	2,213,847
Accounts receivable - PECO Energy Company	640,524	687,462
Accounts receivable - other	223,089	177,875
Assessments receivable (current portion)	16,003	-
Unbilled revenues	2,230,590	2,115,420
Materials inventory	1,184,689	1,151,967
Interest receivable	3,947	2,088
Other	304,317	266,785
<b>Total Current Assets</b>	<b>21,524,856</b>	<b>18,305,867</b>
<b>Restricted Assets</b>		
Cash and cash equivalents	40,322,481	27,126,662
Investments at fair value	-	2,673,519
Prepaid pension asset	719,737	863,023
Interest receivable	11,202	34,565
<b>Total Restricted Assets</b>	<b>41,053,420</b>	<b>30,697,769</b>
<b>Utility Plant</b>		
Property, plant and equipment, net	124,177,912	121,185,554
Investment in Forest Park Water, net	44,105,426	44,957,799
<b>Total Utility Plant</b>	<b>168,283,338</b>	<b>166,143,353</b>
<b>Other Assets</b>		
Derivative instrument, rate swap	3,677,873	4,654,628
Assessments receivable (non-current portion)	108,375	881,311
<b>Total Other Assets</b>	<b>3,786,248</b>	<b>5,535,939</b>
<b>Total Assets</b>	<b>234,647,862</b>	<b>220,682,928</b>
<b>Deferred Outflows of Resources</b>		
Deferred charge on refunding	1,602,861	1,805,328
<b>Liabilities</b>		
<b>Current Liabilities</b>		
Accounts payable	364,413	317,284
Main extension deposits	1,190,850	784,228
Other	689,345	694,688
<b>Current liabilities payable from restricted assets</b>		
Accrued interest on bonds	467,645	479,220
Current portion of bonds payable	4,345,000	4,460,000
<b>Total Current Liabilities</b>	<b>7,057,253</b>	<b>6,735,420</b>
<b>Non-Current Liabilities</b>		
Long-term debt - bonds payable	74,240,000	78,585,000
Unamortized bond premium, net	4,918,598	5,214,651
<b>Total Non-Current Liabilities</b>	<b>79,158,598</b>	<b>83,799,651</b>
<b>Total Liabilities</b>	<b>86,215,851</b>	<b>90,535,071</b>
<b>Deferred Inflows of Resources</b>		
Accumulated increase in fair value of hedging derivative	3,677,873	4,654,628
Deferred pension credit	719,737	863,023
<b>Total Deferred Inflows of Resources</b>	<b>4,397,610</b>	<b>5,517,651</b>
<b>Net Position</b>		
Net investment in capital assets	102,163,932	103,215,424
Restricted assets	3,921,101	3,912,899
Unrestricted assets	39,552,229	19,307,211
<b>Total Net Position</b>	<b>\$145,637,262</b>	<b>\$126,435,534</b>

# NORTH PENN WATER AUTHORITY

## STATEMENTS OF REVENUE, EXPENSES AND CHANGES IN NET POSITION

### Years Ended December 31, 2016 and 2015

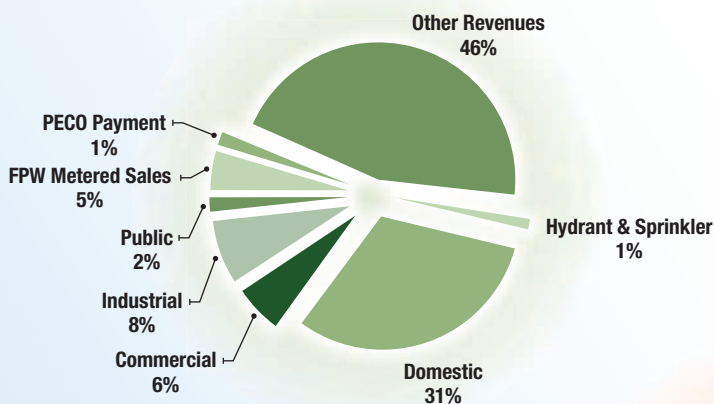
	2016	2015
<b>Operating Revenues</b>		
Metered sales	\$19,670,548	\$18,465,805
Unmetered sales	629,284	481,902
Other revenues	48,124	56,515
<b>Total Operating Revenues</b>	<b>20,347,956</b>	<b>19,004,222</b>
<b>Operating Expenses</b>		
Water collection system	2,450,422	2,619,401
Purification system	71,019	61,734
Laboratory costs	378,860	392,193
Pumping system	564,645	518,126
Metering and customer service	405,429	439,352
Distribution system	1,191,298	3,016,039
Landscape maintenance	26,564	30,706
Administration and engineering	1,869,453	1,797,610
General expenses	2,478,764	2,551,535
<b>Total Operating Expenses</b>	<b>9,436,454</b>	<b>11,426,696</b>
<b>Operating Income</b>	<b>10,911,502</b>	<b>7,577,526</b>
<b>Non-Operating Income</b>	<b>18,145,944</b>	<b>3,457,505</b>
<b>Income before Debt Service Costs and Depreciation and Amortization</b>	<b>29,057,446</b>	<b>11,035,031</b>
<b>Debt Service Costs</b>		
Interest on bonds	3,595,801	3,466,825
Bond issuance costs	-	248,553
Amortization of bond discount and premium	(296,053)	(270,376)
<b>Total Debt Service Costs</b>	<b>3,299,748</b>	<b>3,445,002</b>
<b>Income exclusive of Depreciation and Amortization</b>	<b>25,757,698</b>	<b>7,590,029</b>
<b>Depreciation and Amortization</b>		
Property, plant and equipment	4,405,265	4,115,342
Forest Park Water	2,150,705	2,146,333
<b>Total Depreciation and Amortization</b>	<b>6,555,970</b>	<b>6,261,675</b>
<b>Change in Net Position</b>	<b>19,201,728</b>	<b>1,328,354</b>
<b>Net Position, Beginning of Year</b>	<b>126,435,534</b>	<b>125,107,180</b>
<b>Net Position, End of Year</b>	<b>\$145,637,262</b>	<b>\$126,435,534</b>

# YEAR-END CUSTOMER COUNT

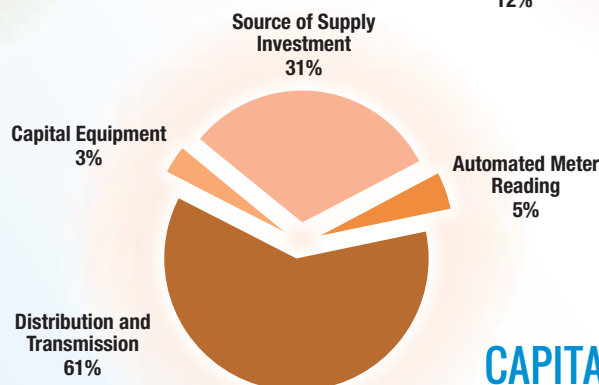
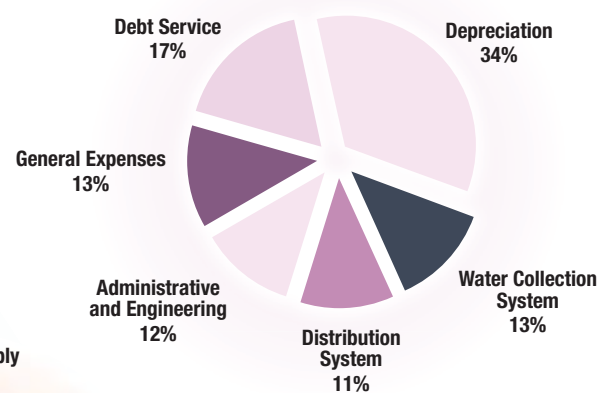
NUMBER OF ACTIVE CUSTOMERS BY MUNICIPALITY AND ACCOUNT CLASSIFICATION

Municipality	DOMESTIC	COMMERCIAL	INDUSTRIAL	PUBLIC	UTILITY	TOTAL
East Rockhill Township	194	0	0	0	0	194
Franconia Township	3,183	74	39	28	0	3,324
Hatfield Borough	922	60	16	8	0	1,006
Hatfield Township	4,194	449	141	25	0	4,809
Hilltown Township	118	91	6	2	2	219
Lansdale Borough	4,964	392	66	36	0	5,458
Lower Salford Township	3,488	123	37	35	1	3,684
Montgomery Township	65	5	0	1	0	71
New Britain Borough	215	47	0	4	0	266
New Britain Township	843	29	13	8	1	894
Perkasie Borough	6	0	0	0	0	6
Salford Township	205	2	0	1	0	208
Sellersville Borough	1,780	57	2	11	0	1,850
Skippack Township	3,034	67	7	27	1	3,136
Souderton Borough	2,114	157	5	13	0	2,289
Telford Borough	1	0	0	0	1	2
Towamencin Township	4,827	160	42	46	0	5,075
Upper Gwynedd Township	242	9	0	3	0	254
Upper Salford Township	2	16	0	0	0	18
West Rockhill Township	107	26	0	2	0	135
Worcester Township	1,292	32	3	13	0	1,340
<b>Total</b>	<b>31,796</b>	<b>1,796</b>	<b>377</b>	<b>263</b>	<b>6</b>	<b>34,238</b>

## REVENUE SOURCES



## EXPENSES



## CAPITAL EXPENDITURES

## TOTAL FOOTAGE IN SYSTEM BY SIZE

Municipality	2"	3"	4"	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"	TOTAL
Chalfont Borough	0	0	0	60	183	0	51	3,387	0	0	10	2,069	3,840	9,600
East Rockhill Township	6	0	118	303	12,459	0	22	0	0	0	88	0	0	12,996
Franconia Township	111	0	1,752	24,930	204,403	10	80,489	15,987	0	0	11,875	0	0	339,557
Hatfield Borough	12	0	1,279	14,957	33,540	115	1,689	4,418	0	0	238	0	0	56,248
Hatfield Township	1,480	0	3,790	84,343	233,006	2,951	83,859	55,866	0	60	24,213	53	0	489,621
Hilltown Township	906	0	69	2,996	21,953	0	14,567	15,220	0	0	1,388	0	0	57,099
Lansdale Borough	979	0	28,495	92,222	120,388	0	31,548	14,574	0	0	280	0	0	288,486
Lower Salford Township	149	0	1,953	30,396	243,071	0	87,750	48,966	0	0	0	0	0	412,285
Montgomery Township	0	0	9	559	0	0	129	0	0	0	0	0	0	697
New Britain Borough	14	0	751	6,897	15,023	0	699	0	0	0	197	0	0	23,581
New Britain Township	742	0	700	19,872	34,508	5,271	13,195	21,552	0	5	2,864	12,878	0	111,587
Perkasie Borough	0	0	0	510	0	0	0	0	0	0	0	0	0	510
Salford Township	115	0	7	988	7,579	0	14,333	0	0	0	0	0	0	23,022
Sellersville Borough	571	0	10,796	22,454	43,750	3,400	12,117	419	0	0	0	0	0	93,507
Skippack Township	430	0	1,508	25,194	146,286	5	85,557	35,576	0	0	17	0	0	294,573
Souderton Borough	825	0	19,983	21,526	53,067	0	15,134	858	0	0	0	0	0	111,393
Towamencin Township	361	0	14,083	77,088	242,684	1,079	76,689	29,368	0	0	210	0	0	441,562
Upper Gwynedd Township	0	0	28	4,961	13,188	0	7,948	53	0	0	0	0	76	26,254
Upper Salford Township	0	0	0	105	1,303	0	2,310	0	0	0	0	0	0	3,718
West Rockhill Township	16	80	883	3,713	17,255	9,841	1,460	1	570	0	0	0	0	33,819
Worcester Township	56	0	1,521	13,239	115,857	0	52,286	25,422	0	0	0	0	0	208,381
<b>Total</b>	<b>6,773</b>	<b>80</b>	<b>87,725</b>	<b>447,313</b>	<b>1,559,503</b>	<b>22,672</b>	<b>581,832</b>	<b>271,667</b>	<b>570</b>	<b>65</b>	<b>41,380</b>	<b>15,000</b>	<b>3,916</b>	<b>3,038,496</b>

As of December 31, 2016, total length in the NPWA system is 575 miles

## GROWTH STATISTICS - as of December 31, 2016

	2015	2016	% Change
Water Purchased from Forest Park [MGD]	9.03	8.64	-4.32%
Daily Pumpage Authority Wells [MGD]	1.29	1.71	32.56%
Average Daily Sendout [MGD]	10.32	10.35	0.29%
Peak Daily Sendout [MGD]	12.40	13.63	9.92%
Number of Wells****	17	17	0.00%
Pumping Capacity Wells [MGD] ***	4.01	4.01	0.00%
Purchased Capacity [MGD]*****	20.00	16.00	-20.00%
Average Daily Sales [MGD]	8.81	9.11	3.41%
Number of Customers*	33,825	34,238	1.22%
Storage Totals [MG]	17.85	17.85	0.00%
Number of Fire Hydrants	3,593	3,619	0.72%
Miles of Main	572	575	0.52%
Metered Ratio**	85.37%	88.02%	3.11%

\* Number of Customers is the number of service connections

\*\* Metered Ratio is the ratio of total water sold to customers divided by the total water pumped from sources

\*\*\* Capacity based on active production wells only

\*\*\*\* Number reflects active production wells only

\*\*\*\*\* Bucks County Water & Sewer Authority reserved 4 MGD of capacity



# NPWA EMPLOYEES - as of December 31, 2016

## Executive Director

Anthony J. Bellitto, Jr., P.E.

## Director of Operations and Engineering

Daniel C. Preston, P.E.

## Financial Director

Dale B. Reichenbach

## Administration and Public Relations

Maryann M. Regan, Administration  
and Public Relations Manager

Lindsay J. Hughes

Susan E. Borowski

Helene J. Dunn - PT

## Customer Service

William D. Kasper,  
Customer Service Manager\*

Barbara W. Sigg, Supervisor

Alicia K. Smith

Amber M. Krauss

Amy J. Payer

Rochelle M. Lippolis - PT

## Engineering

Karen S. Sullivan\*

Daniel J. Yaw, Jr.

## Equipment Maintenance

John W. Boyce

## Financial

Lorraine E. Girone, Supervisor

Dolores Ferguson

Danielle Frankenfield

Susan Sarnocinski

## Information Technology

Daniel P. Pearce, Information  
Technology Manager

Mark J. Wensel

## Meter

Steven J. Reber, Supervisor\*

David L. Galluppi\*

Jeffrey D. Hagan

Chris M. Johnson

Edward M. Pierce\*

Thomas J. Hughes, Jr. - PT

## Operations

Jonathan C. Hartzell,  
Operations Manager\*

James P. Sharayko,  
Construction Superintendent\*

William R. Hoffman, Jr.,

Maintenance Superintendent\*

Stephen A. Fretz, Jr.

John M. Myers, Crew Leader\*

John L. Dickinson, III\*

Kevin Mokriski

Harold M. Wesner, Jr.\*

William H. Wooler\*

Bryan S. Reimel, Crew Leader\*

Daniel M. Beiler\*

Angelo V. Cosentino

Sean M. Gore\*

Michael A. Petrone

Owen A. Kratz - PT

## System Control

Michael J. Bush, Chief Operator\*

Erwin G. Hunsberger\*

James C. Lengel\*

Sean M. Rogers\*

## Water Quality

Heidi L. Palmer, Water Quality Manager

Bruce W. Sandstrom

Ryan A. Repash

Katherine H. Schulze - PT

**\* Certified Water Works Operator  
PT – Part-time**

## MANAGEMENT TEAM



*(Back - left to right)*

**Jonathan C. Hartzell**, Operations Manager

**Heidi L. Palmer**, Water Quality Manager

**William D. Kasper**, Customer Service Manager

**Maryann M. Regan**, Administration and Public  
Relations Manager

**Daniel P. Pearce**, Information Technology Manager

*(Front - left to right)*

**Daniel C. Preston**, P.E., Director of Operations  
and Engineering

**Anthony J. Bellitto, Jr.**, P.E., Executive Director

**Dale B. Reichenbach**, Financial Director





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