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This report is also available online at
npwa.org

NPWA water meets or exceeds all State and Federal Safe Drinking Water Act standards.

2025

ANNUAL DRINKING WATER QUALITY REPORT

SELLERSVILLE

PWSID#1460034

This report is being mailed to you as a requirement of the Federal Safe Drinking Water Act.

"A dedicated, professional workforce committed to providing the community with a safe, reliable, and economical water supply."

EDUCATIONAL INFORMATION

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and DEP prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's **Safe Drinking Water Hotline (800-426-4791)**.

FOREST PARK WATER

Forest Park is a state of the art water treatment facility that combines conventional treatment processes with advanced techniques, which include ozone disinfection and membrane filtration. Membrane filtration is a leading-edge technology capable of consistently producing very high quality water and ensures the plant can safely meet the more stringent federal and state water quality regulations that will be required in the near future. This combination of traditional and innovative water treatment allows Forest Park to produce the safest, highest quality water possible. In 2024, the American Water Works Association's Partnership for Safe Water Program awarded Forest Park Water Treatment Plant (FPWTP) with the President's Award for the 12th straight year. The President's Award recognizes the achievement of very stringent performance goals, signifying the outstanding operations and maintenance practices at this high-performing water treatment plant. The FPWTP has been involved in the Partnership for Safe Water since 1995 and is a Directors Award recipient since 2002.

In 2024, for the 17th consecutive year, Forest Park received the prestigious Area-Wide Optimization Award (AWOP) presented by the Pennsylvania Department of Environmental Protection (PA DEP). The award recognizes outstanding efforts toward optimizing water treatment performance. AWOP is a national filter plant optimization effort among numerous states, the US EPA, and the Association of State Drinking Water Administrators (ASDWA).

PHONE: 215-855-3617 • npwa.org



NORTH PENN WATER AUTHORITY

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North Penn Water Authority – Sellersville – PWSID # 1460034

INFORMATION ABOUT LEAD

Lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. North Penn Water Authority is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing.

You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact North Penn Water Authority at 215-855-3617. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

As part of our continued compliance with EPA's Lead and Copper Rule Revisions (LCRR), North Penn Water Authority prepared a service line inventory that includes the type of material contained in each service line in our distribution system. This inventory can be accessed online at <https://npwa.org/service-line-inventory> or by contacting our office at 215-855-3617.

A service line is the piping that connects your household or building plumbing to the water main in the street. Ownership varies by water system but is typically split between the water system and the customer. North Penn Water Authority owns the section of the service line from the water main to the curb stop located near the curb or street line, while the section from the curb stop to inside the premises, including all internal plumbing is owned by the customer. NPWA seeks your assistance in identifying the material of the service line entering your home or business. Accurate information about the service line material will enable NPWA to have a comprehensive inventory, as mandated by EPA's LCRR. To complete a form identifying the water service line material in your home or business go to <https://npwa.org/service-line-inventory> or contact our office at 215-855-3617.

INFORMATION ABOUT ARSENIC

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water.

EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

CRYPTOSPORIDIUM AND GIARDIA

Cryptosporidium and *Giardia* are microbial pathogens found in surface water throughout the United States. In 2024, Forest Park Water monitored the North Branch Neshaminy Creek source water (before treatment) for *Cryptosporidium* and *Giardia*. Four rounds of sampling were conducted. *Cryptosporidium* was **not detected** in any of the 4 samples collected. *Giardia* was detected in 1 out of 4 samples collected. Although Forest Park Water treatment process includes filtration to remove *Cryptosporidium* and *Giardia*, the most commonly-used filtration methods cannot guarantee 100 percent removal. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease.

Ingestion of *Cryptosporidium* and/or *Giardia* may cause abdominal infections called *cryptosporidiosis* or *giardiasis*. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at a greater risk of developing life-threatening illness. NPWA encourages immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* and *Giardia* must be ingested to cause disease, and they may be spread through means other than drinking water.



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Este informe contiene información importante acerca de su agua potable.

Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda.

This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.

Owners of multiple family dwellings, commercial businesses, public housing, or similar situations, are encouraged to post and/or distribute this report. Additional copies are available and can be obtained at North Penn Water Authority’s operations center or by calling (215) 855-3617.

This report is also available online at npwa.org.

NPWA water meets or exceeds all State and Federal Safe Drinking Water Act standards.

Water System Information

North Penn Water Authority (NPWA) is pleased to present to you this year’s Annual Drinking Water Quality Report. This report summarizes the quality of water NPWA provided in 2024. Included are details about where your water comes from, what it contains, and how it compares to United States Environmental Protection Agency (US EPA) and Pennsylvania Department of Environmental Protection (PA DEP) state standards. We are committed to providing you with information because informed customers are our best allies. The Authority’s staff of professionals is dedicated to ensuring that our customers receive a safe, economical, and continuous supply of water.

It is important for our valued customers to be informed about their water quality. If you have any questions about this report or regarding your water utility, please contact Shana Constanzer, Public Relations Coordinator, at (215) 855-3617 or visit our website at npwa.org. If you want to learn more about NPWA, please attend any of our regularly scheduled Board of Directors meetings. Meetings are held on **the fourth Tuesday of every month at the Authority’s operations center located at 300 Forty Foot Road, near the intersection of Forty Foot and Allentown Roads in Towamencin Township. Meetings begin at 7:00 p.m.**

Sources of Water

In 2024, the source of water that NPWA delivered to its customers in Sellersville Borough came from treated surface water from the Forest Park Water Treatment Plant (FPWTP) located in Chalfont. As the water leaves FPWTP and travels through the distribution system, a small percentage of groundwater from wells located within Hilltown Township and Telford Borough at times can also contribute to the source of water that serves Sellersville. Water from all groundwater supplies is chlorinated before it is delivered to our customers’ homes.

The source of water that is treated at Forest Park Water is the North Branch Neshaminy Creek. The North Branch Neshaminy Creek originates as a small stream near Route 413 in Central Bucks County. The creek flows into Lake Galena, which is the reservoir for Forest Park Water. Water released from Lake Galena continues to flow down the Neshaminy Creek to the FPWTP, in Chalfont, Pennsylvania. Due to the high demand of water from Forest Park, water is pumped from the Delaware River at Point Pleasant and diverted into the North Branch Neshaminy Creek near Gardenville, Pennsylvania. This diversion controls the level of Lake Galena for recreational purposes, ensures a sufficient drinking water supply, and maintains base flow in the stream.

PEOPLE WITH SPECIAL HEALTH CONCERNS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about

drinking water from their health care providers. United States Environmental Protection Agency (US EPA) / Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the **Safe Drinking Water Hotline (800-426-4791)**.

MONITORING YOUR WATER

NPWA routinely monitors for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of **January 1 to December 31, 2024**. As you review these tables, you will notice that NPWA water meets or exceeds all primary state and federal Drinking Water

Act standards. The US EPA and PA DEP allow us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the *Safe Drinking Water Act*. The date has been noted on the sample results tables.



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SOURCE WATER ASSESSMENT

A Source Water Assessment of the North Branch Neshaminy Creek Intake, which supplies water to the Forest Park Water Treatment Plant, was completed and prepared by Spotts, Steven & McCoy, Inc. for the PA DEP. The Assessment found that the North Branch Neshaminy Creek Intake is potentially most susceptible to point sources of pollution from auto repair shops, wastewater treatment plants, boating, quarries, on-lot septic systems and gas stations. Non-point sources of potential contamination include major transportation corridors and runoff from areas of urban development, livestock farming, and industrial parks. The most serious potential sources are related to accidental release of a variety of materials along transportation corridors and high nutrients from Lake Galena. FPWTP has the capability to treat a wide array of contaminants and minimize any negative impacts from such sources. Regular and frequent monitoring of the water supply allows us to identify any concerns and remediate any problems in a timely manner. Contingency plans and emergency response plans are in place to deal with any release of contaminants or accidental occurrences that could compromise the integrity of your drinking water quality.

Telford Borough Authority (TBA) operates six groundwater wells that draw from the Brunswick Formation aquifer. These wells are located throughout their service territory, which includes Telford Borough and portions of the townships of Franconia, Hilltown, and West Rockhill. A Source Water Assessment of Telford’s groundwater sources was completed by the PA DEP. The Assessment found that the water sources are most susceptible to contamination from transportation corridors, auto repair shops, a cemetery, a bus/truck terminal and from residential activities.

Summary reports of the Assessments are available on the Source Water Assessment Summary Reports eLibrary web page: <https://greenport.pa.gov/elibrary/GetFolder?FolderID=4490>. Complete reports were distributed to municipalities, water suppliers, local planning agencies and PA DEP

offices. Copies of the complete reports are available for review at the PA DEP Southeast Regional Office, Records Management Unit, at (484)250-5910.

Hilltown Township Water and Sewer Authority (HTWSA) operates 3 groundwater supply wells. HTWSA’s wells are located in the East Branch Perkiomen watershed. Well No. 1 is located off Thistle Lane, Well No. 2 is located on South Perkasio Road, and Well No. 5 is located on Route 152. Arsenic treatment and disinfection are conducted at each well facility prior to distribution. A copy of the Source Water Assessment for HTWSA is available for viewing at their office located at 316 Highland Park Road, Hilltown Township.

North Penn Water Authority serves more than 36,000 customers in the following municipalities:

- | | |
|------------------------|-------------------------|
| Hatfield Borough | <i>and portions of:</i> |
| Lansdale Borough | Hilltown Township |
| Sellersville Borough | Montgomery Township |
| Souderton Borough | New Britain Borough |
| Franconia Township | New Britain Township |
| Hatfield Township | Salford Township |
| Lower Salford Township | Upper Gwynedd Township |
| Skippack Township | Upper Salford Township |
| Towamencin Township | West Rockhill Township |
| | Worcester Township |

DETECTED SAMPLE RESULTS

North Penn Water Authority – Sellersville – PWSID # 1460034

Table includes results for Forest Park Water Treatment Plant (FP), Hilltown Township Wells (H), and Telford Borough Wells (T)

CHEMICAL CONTAMINANTS

Contaminant	MCL	MCLG	Highest Level Detected	Range of Detections	Units	Sample Date	Violation Yes/No	Sources of Contamination
Bromate <i>(monitored at FP only)</i>	10	0	6.2	0 – 6.2 (FP)	ppb	2024	No	By-product of drinking water chlorination
Arsenic	10	0	0 (FP) 3 (H) 6 (T)	0 (FP) 0 – 3 (H) 3 – 6 (T)	ppb	2024	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium	2	2	0.016 (FP) 0.2 (H) 0.319 (T)	0.016 (FP) 0.058 – 0.2 (H) 0.065 – 0.319 (T)	ppm	2024	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Cyanide	200	200	0 (FP) 5 (T) 0 (H)	0 (FP) 0 – 5 (T) 0 (H)	ppb	2024	No	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Fluoride	2	2	0.109 (FP) 0.27 (H) 0.112 (T)	0.109 (FP) 0 – 0.27 (H) 0 – 0.112 (T)	ppm	2024	No	Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Nitrate	10	10	0.726 (FP) 1.15 (H) 2.94 (T)	0.282 – 0.726 (FP) 0 – 1.15 (H) 1.36 – 2.94 (T)	ppm	2024	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Perfluorooctanoic acid (PFOA) ^a	14	8	2.7 ^b (FP) 4.6 ^b (H) 11.7 ^b (T)	0 – 2.9 (FP) 0 – 6.86 (H) 2.23 – 13.4 (T)	ppt	2024	No	Discharge from manufacturing facilities and runoff from land use activities
Perfluorooctanesulfonic acid (PFOS) ^a	18	14	0 ^b (FP) 4.24 ^b (H) 12.5 ^b (T)	0 (FP) 0 – 5.84 (H) 3.45 – 13.4 (T)	ppt	2024	No	
Alpha Emitters	15	0	0 (FP) 6.76 (H) 9.66 (T)	0 (FP) 0 – 6.76 (H) 0 – 9.66 (T)	pCi/L	2020, 2022 & 2023	No	Erosion of natural deposits
Combined Uranium	30	0	0 (FP) 10.38 (H) 8.11 (T)	0 (FP) 0 – 10.38 (H) 3.22 – 8.11 (T)	µg/L	2022, 2023, & 2024	No	

^a In January 2023, PA DEP established enforceable drinking water standards in Pennsylvania for PFOA and PFOS. The results in this table are from PA DEP compliance monitoring.

^b Compliance is based on a running annual average of quarterly results. This value represents the highest running annual average result, not a single sample result.

DISINFECTION BY-PRODUCTS (MONITORED IN THE DISTRIBUTION SYSTEM)

Contaminant	MCL	MCLG	Highest Level Detected	Range of Detections	Units	Sample Date	Violation Yes/No	Sources of Contamination
Haloacetic Acids (HAAs) ^a	60	N/A	21.0 ^c	0 – 27.2	ppb	2024	No	By-product of drinking water disinfection
Total Trihalomethanes (TTHMs) ^b	80	N/A	33.4 ^c	10.4 – 60.1	ppb	2024	No	By-product of drinking water chlorination

^a HAAs: The sum of dibromoacetic acid, dichloroacetic acid, monobromoacetic acid, monochloroacetic acid, and trichloroacetic acid

^b TTHMs: The sum of bromoform, bromodichloromethane, chlorodibromomethane, and chloroform

^c Compliance is based on a running annual average of quarterly results. This value represents the highest running annual average result, not a single sample result.

DISTRIBUTION DISINFECTANT RESIDUAL

Contaminant	MRDL	MRDLG	Highest Monthly Average Result	Range of Monthly Average Results	Units	Sample Date	Violation Yes/No	Sources of Contamination
Chlorine	4	4	1.34	1.09 - 1.34	ppm	2024	No	Water additive used to control microbes

As a member of the Partnership for Safe Water's Distribution System Optimization Program (DSOP), our goal is to achieve distribution chlorine residual levels ≥ 0.20 mg/L and ≤ 4.0 mg/L. In 2024, we accomplished this. 100% of all samples met this goal.

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DETECTED SAMPLE RESULTS

North Penn Water Authority – Sellersville – PWSID # 1460034

Table includes results for Forest Park Water Treatment Plant (FP), Hilltown Township Wells (H), and Telford Borough Wells (T)

ENTRY POINT DISINFECTANT RESIDUAL

Contaminant	Minimum Disinfectant Residual Required	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Yes/No	Sources of Contamination
Chlorine – FP	0.20	1.44	1.44 – 1.79	ppm	2024	No	Water additive used to control microbes
Chlorine – Telford Wells (T)	0.40	0.50	0.50 – 1.26				
Chlorine – Hilltown Wells (H)	0.40	0.32*	0.32 – 1.92				

*Chlorine levels did not drop below the minimum residual level required for more than 4 hours.

TURBIDITY AT FOREST PARK WATER TREATMENT PLANT (FPWTP)

Contaminant	MCL	MCLG	Highest Level Detected	Range of Detections	Sample Date	Violation Yes/No	Sources of Contamination
Turbidity	TT=1 NTU for a single measurement	N/A	0.05	0.02 – 0.05	2024	No	Soil runoff
	TT= at least 95% of monthly samples less than or equal to 0.3 NTU	N/A	100%	N/A	2024	No	

Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system. As a member of the Partnership for Safe Drinking Water, our goal is to achieve <0.1 NTU. In 2024, we accomplished this. 100% of all samples were <0.1 NTU.

LEAD AND COPPER – TESTED AT CUSTOMERS’ TAPS FROM 6/1/2022 – 9/30/2022

Contaminant	Action Level (AL)	MCLG	90th Percentile Value	Range of Sampling Results	Units	Number of Samples Above AL	Violation Yes/No	Sources of Contamination
Lead	90% of homes must test less than 15 ppb	0	1.0	0 – 15	ppb	0 out of 31	No	Corrosion of household plumbing systems
Copper	90% of homes must test less than 1.3 ppm	1.3	0.278	0 – 0.787	ppm	0 out of 31	No	

UNREGULATED PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) DETECTED AT TELFORD WELLS – PA DEP STATE MONITORING

Contaminant	Average Level Detected	Range of Detections	Units	Sample Date	Sources of Contamination
Perfluorobutanesulfonic acid (PFBS)	3.29	0 – 7.19	ppt	2024	Discharge from manufacturing facilities and runoff from land use activities
Perfluorohexanesulfonic acid (PFHxS)	2.58	0 – 5.95			
Perfluoropentanoic acid (PFPeA)	58.0	0 - 199			
Perfluoroheptanoic acid (PFHpA)	12.5	0 – 46.2			
Perfluorononanoic acid (PFNA)	Less than reporting limit	0 – 2.70			
Perfluorohexanoic acid (PFHxA)	34.0	0 - 119			
Perfluorobutanoic acid (PFBA)	15.4	0 – 49.2			
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	37.0	0 – 141			

EPA UNREGULATED CONTAMINANT MONITORING

Unregulated contaminants are those, for which the United States Environmental Protection Agency (US EPA) has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. From April 2024 to February 2025, Unregulated Contaminant Monitoring Rule 5 (UCMR 5) sampling was conducted at the Forest Park Water Treatment Plant (FP). UCMR 5 specifies monitoring for 29 per- and polyfluoroalkyl substances (PFAS) and lithium. All samples collected during this timeframe were non-detect for all 29 per- and polyfluoroalkyl substances (PFAS) and lithium. UCMR 5 monitoring is still on-going at the Forest Park Water Treatment Plant until May 2025. The results of May 2025 monitoring will be reported in next year’s Water Quality Report, however, if you are interested in those results prior to the publishing of our Water Quality Report in 2026, please contact Shana Constanzer, Public Relations Coordinator, at (215) 855-3617. For more information concerning Unregulated Contaminant Monitoring, visit these websites: <https://www.epa.gov/dwucmr> or <https://drinktap.org/Water-Info/Whats-in-My-Water/Unregulated-Contaminant-Monitoring-Rule-UCMR>

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DETECTED SAMPLE RESULTS

North Penn Water Authority – Sellersville – PWSID # 1460034

Table includes results for Forest Park Water Treatment Plant (FP), Hilltown Township Wells (H), and Telford Borough Wells (T)

UCMR 5 Parameters NOT Detected at Forest Park Water Treatment Plant (FP)

11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	Perfluoroheptanoic acid (PFHpA)
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	Perfluorohexanesulfonic acid (PFHxS)
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	Perfluorohexanoic acid (PFHxA)
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	Perfluorononanoic acid (PFNA)
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	Perfluorooctanesulfonic acid (PFOS)
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	Perfluorooctanoic acid (PFOA)
Hexafluoropropylene oxide dimer acid (HFPO-DA)(GenX)	Perfluoropentanesulfonic acid (PFPeS)
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	Perfluoropentanoic acid (PFPeA)
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	Perfluoroundecanoic acid (PFUnA)
Perfluoro-3-methoxypropanoic acid (PFMPA)	N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)
Perfluoro-4-methoxybutanoic acid (PFMBA)	N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)
Perfluorobutanesulfonic acid (PFBS)	Perfluorotetradecanoic acid (PFTA)
Perfluorobutanoic acid (PFBA)	Perfluorotridecanoic acid (PFTrDA)
Perfluorodecanoic acid (PFDA)	Lithium
Perfluorododecanoic acid (PFDoA)	
Perfluoroheptanesulfonic acid (PFHpS)	

HOW NPWA IS PROTECTING THE WATER YOU DRINK

Lead in drinking water typically comes from the corrosion of drinking water service lines and household plumbing materials. Lead is typically not present in drinking water sources like rivers and groundwater. NPWA and FPWTP add orthophosphate to the water during the treatment process. Orthophosphate acts as a corrosion inhibitor by forming a protective film on the interior of pipes. This film protects the pipe material from the corrosive effects of water, which reduces/eliminates the potential for lead leaching into the water. The typical phosphate levels found in a liter of drinking water are about one hundred times lower than the phosphate levels found in the average American diet. For example, a person would have to drink ten to fifteen liters of water to equal the amount of phosphates in just one can of soda. People concerned about their health and phosphates added as a corrosion inhibitor to the drinking water, should contact their medical care provider.

To enhance water quality, NPWA performs an annual hydrant flushing program which takes place in the spring of each year. This flushing program helps improve water quality by removing any possible build-up of mineral deposits from the inside of water distribution pipes. NPWA also has an aggressive water main replacement program to improve the quality of water that we deliver to our customers. Old unlined cast iron mains, that can affect water quality and restrict flow, are replaced on a regular basis. These projects

are scheduled when the Pennsylvania Department of Transportation (Penn DOT) or our member municipalities are doing work on the roads to reduce inconvenience to the community.

Since 2011, NPWA has voluntarily participated in the American Water Works Association's (AWWA) Distribution System Optimization Program (DSOP). This program is part of AWWA's Partnership for Safe Water whose objective is to implement preventative programs that focus on optimizing treatment performance and distribution system operations. In 2022, NPWA was honored with the 5-year Director's Award for its efforts with the DSOP. NPWA received the award for successfully completing a comprehensive self-assessment of water distribution system operations for the last five years. The assessment involves an evaluation of distribution system operations and performance, including factors such as chlorine residuals, pressure levels and frequency of water main breaks, which on average, are much lower than the national average and the DSOP requirements. NPWA became the first public water utility in Pennsylvania and among the first in North America to receive the Director's Award in 2017. NPWA works hard to go above and beyond the required regulatory standards for drinking water and is proud to provide our customers with reliable, high quality water 24 hours a day, seven days a week.

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DEFINITIONS

In the following tables you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions:

- Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- Minimum Residual Disinfectant Level (MinRDL): The minimum level of residual disinfectant required at the entry point to the distribution system.
- Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
- NTU: Nephelometric turbidity unit is a measure of the clarity of water.
- N/A: Not Applicable
- pCi/L: picocuries per liter (a measure of radioactivity)
- ppm: parts per million, or milligrams per liter (mg/L) – 1 ppm corresponds to 1 second in 11.5 days
- ppb: parts per billion, or micrograms per liter ($\mu\text{g}/\text{L}$) – 1 ppb corresponds to 1 second in 32 years
- ppt: parts per trillion, or nanograms per liter (ng/L) – 1 ppt corresponds to 1 second in 32,000 years