



# Wrightsville Borough Municipal Authority

P.O. Box 187 ■ Wrightsville, Pennsylvania 17368 ■ Telephone 252-2768 ■ Fax 252-0725

Frederick C. Smith, Jr., Chairman

Brian Lyle, General Manager

## 2022 Annual Drinking Water Quality Report

### THE BOROUGH OF WRIGHTSVILLE AND APPLICABLE PORTIONS OF HELLAM TOWNSHIP AND LOWER WINDSOR TOWNSHIP

This is an annual report describing the quality of the water produced and services the Wrightsville Borough Municipal Authority Water Treatment Plant delivers to you every day. Public Water System I.D. 7670097. This report meets the Federal Safe Drinking Water Act (SDWA) requirement for “Consumer Confidence Report,” and contains information on the source of our water, its constituents, and the health risks associated with any contaminants. We want you to understand the efforts we make to continually improve the water treatment process and to protect our water resources. Please read this report carefully. If you have any questions, call Brian Lyle, the Borough Municipal Authority General Manager at (717) 252-3711. Billing and other general questions can be directed to Lorri Harmer, Authority Secretary at (717) 252- 2768 Ext. 011

**Este informe contiene informacion muy importante sobre su agua potable.**

**Traduzcalo o hable con alguien que lo entienda bien.**

**(This report contains very important information about your drinking water.**

**Translate or speak with someone who understands.)**

### THE BOROUGH MUNICIPAL AUTHORITY OF WRIGHTSVILLE’S DRINKING WATER MEETS OR SURPASSES ALL FEDERAL AND STATE DRINKING WATER STANDARDS

We encourage public interest and participation in our community’s decisions affecting drinking water. Regular Water Authority meetings occur the second Thursday of every month at 4:00 p.m. at the Authority Office at 601 Water Street.

The Borough Municipal Authority of Wrightsville Water Supply System provides water for the Borough of Wrightsville, and small portions of Hellam Township and Lower Windsor Township.

The water plant, located on North Front Street, adjacent to the Susquehanna River, was originally constructed in 1897 along Kreutz Creek but was abandoned in 1904 due to insufficient supply and poor water quality. A new source consisting of drilled wells and springs was established off Haughs Road. Miller Lake, the present site of the water treatment plant is an abandoned spring-feed limestone quarry that was purchased in 1950. In 1961, a filter plant was constructed and water was transported from the Susquehanna River to Miller Lake to supply water to the water plant. Upgrades have taken place in 1978 and 1987. In 1990 the Wrightsville Borough Municipal Authority purchased the water supply. During the period from 1994 to 1996, Wrightsville undertook a \$ 924,406 rehabilitation project, which replaced worn equipment and upgraded the facilities to current design and regulatory standards. In October of 1998 \$124,510 was used to replace an old Pig Tail Clarifier with a new Microfloc Absorption Clarifier. In 1999 \$94,500 was spent for a second Microfloc Absorption Clarifier. In 2013 the finished water storage tank on Hellam Steet was sand blasted and painted at a cost of \$353,749. In 2022 we are upgrading our pumps and electrical system at the water treatment plant. The water mains on Hellam Street and South Front were replaced 2019-2022.

Excess nutrients and soil runoff from agricultural sources, construction, and urban runoff are some of the major factors affecting water quality in your watershed. Proper nutrient management and soil conservation practices can protect source water quality. You can also protect water quality by applying lawn fertilizers, herbicides, and pesticides only when absolutely necessary and then only in the minimum quantity required. You should also consider that storm water catch basins lead to streams and rivers that supply drinking water. These storm water inlets are only designed for storm water and not as a convenient disposal site for household chemicals or used motor oil. To learn more about protecting source water quality in the Wrightsville watershed you can contact a Department of Environmental Protection regional watershed coordinator at (717)705-4952. DEP staff protects water quality through the source water assessment and protection program (SWAP). For more information see the DEP Source Water Assessment Summary for Wrightsville elsewhere in this report.

Wrightsville's water treatment plant is a modern facility that purifies source water drawn from the Susquehanna River. The source water contains impurities, which must be removed before the finished water is safe for human use. These impurities are removed as the water passes through a series of treatment processes. Chlorine is added for disinfection, potassium permanganate is added for taste and odor control, and StrenPAC an aluminum-based cationic, along with Superfloc-Polymer to help remove impurities.

Wrightsville's water supply facilities have been constructed and are operated under the provisions of permits issued by the Pennsylvania Department of Environmental Protection. These permits require that Wrightsville provide water meeting Federal and State safe drinking water requirements.

Treated or finished water is pumped to two elevated storage tanks. We maintain an approximate 1-day supply of water in storage at any given time. Wrightsville's water treatment plant produced an average of .327 MGD of water in 2021, with a permitted capacity of .648 MGD. Therefore, the Authority has sufficient water supplies and treatment capacity to meet user demand into the future.

### **Key Table**

**NTU** = Nephelometric Turbidity Units, measure of very small particulate matter in water.

**PCi/L** = picocuries per liter (a measure of radioactivity).

**ppm** = parts per million, or milligrams per liter (mg/l) the equivalent of 1 cent in \$10,000, 000.

**ppb** = parts per billion, or micrograms per liter (ug/l) the equivalent of 1 cent in \$10,000,000,000.

**Minimum Residual Disinfectant Level:** The minimum level of residual disinfectant required at the entry point to the distribution system.

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's 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. MCLG's 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 drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contamination.

**Non-Detects (ND):** The laboratory analysis indicates that the contaminants are not present at a detectable level.

**Action Level (AL):** The concentration of a concentration that, if exceeded, trigger treatment or other requirement that a water system must follow. For example, the lead level is at 90% of sample sites must be below 15 parts per billion of lead.

**Treatment Technique (TT):** Required process intended to reduce the level of a contaminant in drinking water (95% samples 0.3 NTU).

**Nephelometric Turbidity Unit (NTU):** A nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU's is just noticeable to the average person.

### **Water-Quality Table Footnotes**

1. Free or total chlorine residual is measured in the water system to assure the water supply is properly disinfected. The entry point value is the lowest level of chlorine detected at the water plant. The distribution system value is the highest monthly average level of chlorine detected among all of the distribution system sample sites.
2. Compliance for TOC removal is based on a rolling annual average, therefore the data in the table is from 2015.

### **Information About Lead**

If present, elevated levels of 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. The Authority of Wrightsville Borough is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

### **Additional Health Information**

Drinking water, including bottled water, may reasonably be expected to contain at least a small amount 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 Water Hotline at 800-426-4791. The sources of drinking water (both tap 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 radioactive material, and can pick-up substance resulting from the presence of animal or human activity. Contaminants that maybe present in source water include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or results from urban storm water runoff, and industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems.
- (E) 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 prescribes regulations, which limits the amount of certain contaminants in water provided by public water system. The EPA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

**Water Quality Results****Regulated Substances (Measured on the Water Leaving the Treatment Plant)**

Substance (Units)	Year Sampled	MCL mg/l	MCLG to CCR	Highest Level Detected	Range of Detection	Violations Y/N	Typical Source
Atrazine (ppm)	2022	0.002	3	<0.002	SS	N	Runoff from herbicide on crops
Barium (ppm)	2022	2	2	<0.036	SS	N	Discharge of drilling wastes discharge from metal refineries; erosion of natural deposits
Chromium (ppm)	2022	0.1	100	<0.005	SS	N	Discharge from steel and pulp mills; erosion of natural deposits
Nitrate (ppm)	2022	10	10	1.41	SS	N	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Nitrite (ppm)	2022	1	1	<0.40	SS	N	Come from Nitrates
Selenium (ppm)	2022	0.05	50	<0.01	SS	N	Discharge from petroleum and metal refineries; erosion of natural deposits discharged from mines
Fluoride (ppm)	2022	2	2	<0.20	SS	N	Water Additive that promotes strong teeth
Turbidity (NTU)	2022	TT	TT	.087	0.02-.087	N	Source water contaminant from runoff

**Bacterial Results (Measured in the Distribution System)**

Substance (units)	Year Sampled	MCL mg/l	MCLG to CCR	Highest Number of Positive Samples	Violations Y/N	Typical Source
Total Coliforms (%)	2022	0.0% of Monthly samples are positive	0 bacteria	0	N	Naturally present in the environment

**Tap Water Samples: Lead and Copper Results**

Substance (units)	Year Sampled	MCL mg/l	MCLG to CCR	Number of Samples	Number of Samples Above Action Level	Violations Y/N	Typical Source
Lead (ppb)	2022	.015	15	22	0	N	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	2022	1.3	1.3	22	0	N	Corrosion of household plumbing systems,; erosion of natural deposits; leaching from wood preservatives

**Other Compounds (Measured in the Distribution System)**

Substance (units)	Year	MCL mg/l	MCLG to CCR	Avg. Result	Range of Detection	Violations Y/N	Typical Source
Total Trihalomethanes (TTHM) (ppb) 960 Hellam St	2022	.080	80	29.8	27.5 – 32.1	Y	Byproduct of drinking water chlorination
Total Organic Carbon (TOC) Entry Point	2022	TT	TT	1.95	1.5 – 2.5	N	Naturally present in the environment
Raw	2022	TT	TT	3.93	3.1 – 4.6		
TOC Removal	2022	25%	48%	26% - 65%		N	

**Entry Point Disinfection Residual (Measured on the water leaving treatment plant)**

Source of Contamination	Min Disinfection Residual	Entry Point	Lowest Level Detected	Range of Detections	Units	Violation Y/N	Source of Contamination
Chlorine 2022	0.4	101	1.37	1.37 – 3.22	ppm	N	Water Additive used to control microbes

**Special Notice To At Risk Population**

Some people may be more vulnerable to contaminants in drinking water than is the general population. Immune-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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791)

**FREQUENTLY ASKED QUESTIONS**

**Does Wrightsville Water add fluoride to my water?** The Wrightsville Water Co. does not add fluoride to the water.

**Why the chemical smell?** This is due to adjusted levels of chlorine depending upon the weather and river conditions.

**Why does my water look milky?** It is from tiny air bubbles in the water, after a little while, the bubbles will rise to the top and be gone.

**IF YOU WOULD LIKE MORE INFORMATION:**

If you would like more information regarding Wrightsville Borough Municipal Authority, please contact our office at 717-252-2768 ext. 011, or visit our website at: <a href="http://www.wrightsvilleborough.com">www.wrightsvilleborough.com</a>	Meetings of the Wrightsville Water Authority Board of Directors are held the second Thursday of every month at 4:00 PM at the Authority’s office, located at 601 Water Street, Wrightsville	<b>Business Hours &amp; Phone</b> Walk-in: 9:00 AM to 4:30 PM Telephone 9:00 AM to 4:30 PM Monday through Friday Telephone: 717-252-2768
If you have a specific concern or question regarding water quality, you may contact the water plant during normal business hours at 717-252-3711	Information about the Wrightsville Watershed may be obtained directly from DEP at 717-705-4952	<b>Emergency Hours &amp; Phone</b> 24 HOURS PER DAY 7 DAYS PER WEEK Telephone: 717-252-2768

Public Water Supplier Identification Number PA7670097

**IMPORTANT MESSAGE**

In order to comply with the new Pennsylvania Tier-One Notification regulations, WBMA has contracted with Rave Alert to provide telephonic notifications to our customers for water emergencies. These notifications will only be issued for EMERGENCIES. If you have not received a notification yet we may not have your phone number, please call us at 717-252-2768 to enter your information.

# **PUBLIC NOTICE**

## **IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER**

*ESTE INFORME CONTIENE INFORMACION IMPORTANTE ACERCA DE SU AGUA POTABLE. HAGA QUE ALGUIEN LO TRADUZCA ARA USTED, O HABLE CON ALGUIEN QUE LO ENTIENDA.*

### **Wrightsville Borough Municipal Authority Water Has Failed To Obtain A Public Water Supply Permit For A Treatment Process, Which Is A Violation Of Title 25 Pa. Code 109,501.**

#### **What should I do?**

There is nothing you need to do at this time.

#### **What happened? What was done? When will it be resolved?**

The Wrightsville Borough Municipal Authority replaced the filter media in two filters, but did not obtain a public water supply permit for a treatment process first.

We contacted our Engineer, John Klinedinst, P.E. at C.S. Davidson, Inc., to contact DEP to obtain a water supply permit for a treatment process for our filter media.

This will take awhile to get a permit approved for the two filters and the filter media in two other filters that would be replaced next year.

Please share this information with all other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information regarding this notice, please contact Brian Lyle at 717-577-9746. This notice is being sent to you by Wrightsville Borough Municipal Authority Water. State Water System ID# 7670097.

**PUBLIC NOTICE**

**IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER  
 FAILURE TO MONITOR**

**ESTE INFORME CONTIENE INFORMACIÓN IMPORTANTE ACERCA DE SU AGUA POTABLE. HAGA QUE  
 ALGUIEN LO TRADUZCA PARA USTED, O HABLE CON ALGUIEN QUE LO ENTIENDA.**

**Monitoring Requirements Not Met for Wrightsville Boro Municipal Authority**

Our water system violated several drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

*We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the fourth quarter of 2022 we failed to monitor for the following contaminants and therefore cannot be sure of the quality of our drinking water during that time.*

**What should I do?**

There is nothing you need to do at this time.

The table below lists the contaminant(s) we did not properly test for during the last year, the required sampling frequency, how many samples we took, when samples should have been taken, and the date on which corrective action samples were (or will be) taken.

Contaminant	Required sampling frequency	Number of samples taken	When all samples should have been taken	When samples were or will be taken
TTHM	Quarterly	0	Oct-Dec	Feb 6, 2023
HAA5	Quarterly	0	Oct-Dec	Feb 6, 2023

**What happened? What was done? When will it be resolved?**

We were not aware that DEP adjusted our sample schedule 2023. The samples were taken when we were notified by DEP on 2/6/2023. It has been resolved.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information regarding this notice, please contact Brian Lyle at 717-577-9746.

Certified by:

Signature:



Date: 4/21/2023