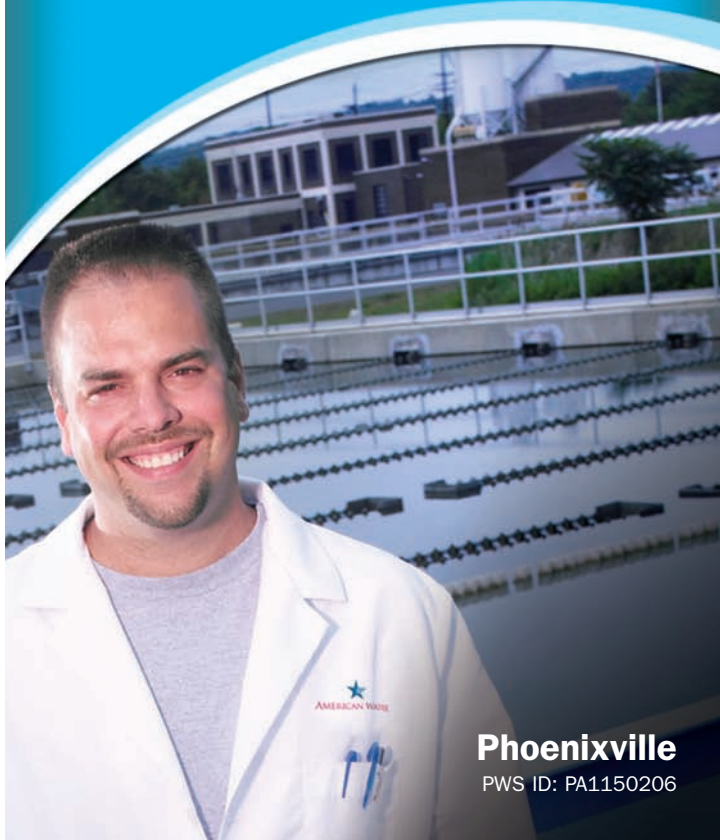


2008 Annual Water Quality Report



Phoenixville
PWS ID: PA1150206

A Message from Kathy Pape, President

As a trusted leader in the industry, Pennsylvania American Water places a strong emphasis on sharing information with customers about the quality of the water service we provide.

One way we do this is by providing annual reports with the results of the tests that we perform on the water delivered to your home. Please review this Consumer Confidence Report (CCR), which outlines information that is applicable to your local water system for tests completed through December 2008. You'll find that we provide water that surpasses or meets all federal and state water quality regulations. In fact, we often address regulations well before they go into effect.

Just as important, Pennsylvania American Water makes the necessary investments to maintain and upgrade its facilities, so that we can deliver quality water directly to your tap 24 hours a day, seven days a week.

Our customers are our top priority, and we are committed to providing you with the highest quality drinking water and service possible now and in the years to come. In addition to this written report, you can view information about Pennsylvania American Water and your water system on our website at www.pennsylvaniaamwater.com. For more information or if you have any questions about this report, please contact Pennsylvania American Water's Customer Service Center at (800) 565-7292.

Sincerely,

Our Mark of Excellence

Founded in 1886, American Water is the largest investor-owned U.S. water and wastewater utility company. With headquarters in Voorhees, N.J., the company employs more than 7,000 dedicated professionals who provide drinking water, wastewater and other related services to approximately 15 million people in 32 states and Ontario, Canada.

We are once again proud to present our annual water quality report. This edition covers all testing completed from January through December 2008. Over the years, we have dedicated ourselves to producing drinking water that meets or surpasses all state and federal drinking water standards. We continually strive to adopt new and better methods of delivering the best quality drinking water to you. As regulations and drinking water standards change, it is our commitment to you to incorporate these changes system-wide in an expeditious and cost-effective manner, while maintaining our objective of providing quality drinking water at an affordable price.

We are pleased to tell you that our compliance with all state and federal drinking water laws remains exemplary. To that end, we remain vigilant in meeting the challenges of source water protection, water conservation, and community education while continuing to serve the need of all our water users.

For more information about this report, or for any questions relating to your drinking water, please feel free to call our Customer Service Department at 1-800-565-7292.

Source Water Information

The Schuylkill River is the sole source of supply for the Phoenixville area. Pennsylvania American Water (PAW) purchases the treated water from the Phoenixville Water Authority of the Borough of Phoenixville. The water supply is distributed for residential, commercial, and industrial uses.

Protecting Your Water Source

The Pennsylvania Department of Environmental Protection (DEP) completed an assessment for the drinking water sources for the Borough of Phoenixville in 2002. The source overall has a moderate risk to significant contamination. The assessment found that this source is potentially susceptible to spills, failing septic systems, wastewater lift station and collection overflows, run off from roads and parking lots and waterfowl. The Schuylkill River is also susceptible to the effects of acid mine drainage in its upper watershed. A copy of the completed Source Water Assessment may be viewed by calling the local office of the Pennsylvania DEP at 484-250-5900. PAW encourages you to take an active part in protecting your water supply by participating in local activities as they occur in your local area.

Other Water Quality Parameters of Interest Is there lead in your water?

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 Borough of Phoenixville 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>

How hard is your water?

Hardness is a measure of the concentration of two minerals naturally present in water – calcium and magnesium. High hardness levels cause soap not to foam as easily as it would at lower levels. Historically hardness levels range from 65 ppm to 130 ppm, or about 4 to 8 grains per gallon of water.

How much sodium is in your water?

The sodium level is approximately 16 mg/L.

What is the pH (acidity) range of your water?

Water in the distribution system averages 7.1 pH units. A pH of 7.0 is considered neutral, neither acidic nor basic.

Is there fluoride in your water?

PAW does not add fluoride to your water supply.

How to Contact Us

Additional copies of this report can be obtained by calling our Customer Service Department at 1-800-565-7292. Electronic copies of this document can be obtained by visiting our website, www.pennsylvaniaamwater.com, selecting the 'Ensuring Water Quality' tab, then selecting 'Water Quality Reports' and choosing the report for your service area. Added information can be gathered by calling our Customer Service Department or by viewing the following information on the Internet:

Pennsylvania American Water

www.pennsylvaniaamwater.com

Pennsylvania Department of Environmental Protection

www.dep.state.pa.us

United States Environmental Protection Agency

www.epa.gov/safewater

Safe Drinking Water Hotline: 1-800-426-4791

Centers for Disease Control and Prevention

www.cdc.gov

American Water Works Association

www.awwa.org

Water Quality Statement

We are pleased to report that during the past year, the water delivered to your home or business complied with all state and federal drinking water requirements. For your information, we have compiled a list in the table below showing what substances were detected in your drinking water during 2008. The Pennsylvania DEP allows us to monitor for some contaminants less than once per year because the concentration of the contaminants does not change frequently. Some of our data, though representative, is more than one year old. Although all of the substances listed below are under the Maximum Contaminant Levels (MCL) set by U.S. Environmental Protection Agency and the Pennsylvania DEP, we feel it is important that you know exactly what was detected and how much of each substance was present in the water.

Water Quality Results

Turbidity – A Measure of the Clarity of the Water at the Treatment Facility							
Plant	Substance (units)	Year Sampled	MCL	MCLG	Highest Single Measurement	Compliance Achieved	Typical Source
Borough of Phoenixville	Turbidity (NTU)	2008	TT*	NA	0.30	Yes	Soil runoff
* All turbidity readings were below the treatment technique requirement of 0.3 (or 0.5) NTU in 95% of all the samples taken for compliance on a monthly basis.							
Regulated Substances (Data from the Borough of Phoenixville for the purchased water)							
Substance (units)	Year Sampled	MCL	MCLG	Average Amount Detected	Range Low - High	Compliance Achieved	Typical Source
Barium (ppm)	2004	2	2	0.03	SS	Yes	Discharge of drilling waste; discharge from metal refineries; erosion of natural deposits
Chromium (ppb)	2004	100	100	2	SS	Yes	Discharge from steel plants; erosion of natural deposits in ground
Fluoride (ppm)	2004	2	2	0.72	SS	Yes	Water additive to prevent tooth decay; erosion of natural deposits; discharge from fertilizer and aluminum factories
Gross Beta (pCi/L)	2008	50*	0	5.2	ND - 5.2	Yes	Decay of natural and man-made deposits
Tritium (pCi/L)	2008	20,000	0	507.7	SS	Yes	Naturally occurring in the environment; by-product of the production of electricity by power plants
Di(2-ethylhexyl) phthalate (ppb)	2005	5	0	0.54	SS	Yes	Discharge from rubber and chemical factories
* The EPA considers 50 pCi/L to be the level of concern for Beta particles.							
Total Organic Carbon Removal (Data from the Borough of Phoenixville for the purchased water)							
Substance (units)	Year Sampled	TT		Range of % Removal Required	Range of % Removal Achieved	Compliance Achieved	Typical Source
Total Organic Carbon (TOC) * (% removal)	2008	Meet EPA Removal Requirements		25 - 35	27 - 41	Yes	Naturally decaying vegetation
* Adequate removal of TOC may be necessary to control the unwanted formation of chlorinated by-products. Naturally occurring organic matter present in the source water can react with the disinfectants used at the treatment facility to form these by-products.							
Regulated Substances - Measured from Water in Phoenixville Water Distribution System							
Substance (units)	Year Sampled	MCL	MCLG/ MRDL	Average Amount Detected	Range Low - High	Compliance Achieved	Typical Source
Total Chlorine Residual in Distribution System (ppm)**	2008	NA	4	0.77	0.11 - 0.77	Yes	Added to water as a disinfectant
Nitrates as Nitrogen (ppm)	2008	10	10	2.85	2.74 - 2.96	Yes	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits
Total Trihalomethanes (ppb)	2008	80	NA	76.9	31.9 - 144.8*	Yes	By-product of drinking water chlorination
Total Haloacetic Acids (HAA5) (ppb)	2008	60	NA	33.7	7.8 - 45.3*	Yes	By-product of drinking water chlorination
*Range represents sampling at individual sample points. **MRDL (maximum residual disinfectant level) applies.							
Bacterial Results - Measured from Phoenixville Water Distribution System							
Substance (units)	Year Sampled	MCL		MCLG	Highest Percentage Detected	Compliance Achieved	Typical Source
Total Coliforms (% of positive samples)	2008	Not more than one positive sample per month		Zero bacteria	0	Yes	Naturally present in the environment
Lead and Copper Results - Tap Water Test Results from Phoenixville Water Distribution System							
Substance (units)	Year Sampled	Action Level	MCLG	Number of Samples	90th Percentile	Number of Samples Above Action Level	Typical Source
Lead (ppb)	2007	15	0	13	19	2	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	2007	1.3	1.3	13	1.1	0	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

How to Read This Table

Starting with a **Substance**, read across. **Year Sampled** is usually 2008 or the year prior. **MCL** shows the highest level of each substance (contaminant) allowed. **MCLG** is the goal level for that substance (goal may be set lower than what is allowed). **Average Amount Detected** represents the measured amount (less is better). **Range** tells the highest and lowest amounts measured. A **Yes** under **Compliance Achieved** means the amount of the substance met government requirements. **Typical Source** tells where the substance usually originates.

Non-regulated substances are measured, but maximum allowed contaminant levels have not been established by the government. These contaminants are shown for your information.

Definitions of Terms Used in This Report

- **AL (Action Level):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.
- **MCL (Maximum Contaminant Level):** 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.
- **MCLG (Maximum Contaminant Level Goal):** 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.
- **MRDL (Maximum Residual Disinfectant Level):** The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **MRDLG (Maximum Residual Disinfectant Level Goal):** The level of 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.
- **NA:** Not applicable
- **ND:** Not detected
- **NTU (Nephelometric Turbidity Units):** Measurement of the clarity, or turbidity, of the water.
- **pCi/L (picocuries per liter):** Measurement of the natural rate of disintegration of radioactive contaminants in water (also beta particles).
- **ppm (parts per million):** One part substance per million parts water, or milligrams per liter.
- **ppb (parts per billion):** One part substance per billion parts water, or micrograms per liter.
- **SS:** Single sample
- **TT (Treatment Technique):** A required process intended to reduce the level of a contaminant in drinking water.
- **%:** means percent
- **<:** means less than.

Substances Expected to be in Drinking Water

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations also establish limits for contaminants in bottled water, which must provide the same protection for public health. Pennsylvania American Water's treatment processes are designed to reduce any such substances to levels well below any health concern and the processes are controlled to provide maximum protection against microbial and viral pathogens which could be naturally present in surface and groundwater. 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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

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 may 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 and other microbial contaminants are available from the EPA's Safe Drinking Water Hotline (800) 426-4791.

The source of drinking water (both tap water and bottled water) includes 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 from 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 may 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 also may come from gas stations, urban stormwater runoff, and septic systems. **Radioactive Contaminants**, which can be naturally occurring or may be the result of oil and gas production and mining activities.

Chloramine Treatment

Chloramines are a Pennsylvania DEP and EPA approved alternate disinfectant to free chlorine for water disinfection. Chloramines minimize the formation of regulated disinfection by-products. Another benefit of chloramines is improved taste of the water as compared with free chlorine. The Borough of Phoenixville has successfully used chloramines in the water supplied to our system since May 2003. Chloramines are also used by many other water utilities nationally. Chloramines have the same effect as chlorine for typical water uses with the exception that chloramines must be removed from water used in kidney dialysis and fish tanks or aquariums. Treatments to remove chloramines are different than treatments for removing chlorine. Please contact your physician or dialysis specialist for questions pertaining to kidney dialysis water treatment. Contact your pet store or veterinarian for questions regarding water used for fish and other aquatic life. Additional information can be obtained by visiting our website at http://www.amwater.com/awpr1/paaw/newsroom/reports_notifications/page7613.html.

Nitrates

PAW's normal range of nitrate levels is below the MCL of 10 ppm. Nitrate enters the water supply from fertilizers used on farms and natural erosion of deposits in the watershed. Levels above 10 ppm are a health risk for infants under six months of age and can cause blue baby syndrome. Check with your physician if you have questions.



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Este informe contiene
información muy importante
sobre su agua potable.
Tradúzcalo o hable con
alguien que lo entienda bien.