



## **Central Lehigh Division**

**PWS ID: 3390073**

### **Annual Water Quality Report for 2025**



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

### **Lehigh County Authority's Commitment to Safe Drinking Water**

Lehigh County Authority (LCA) is a public, nonprofit water and sewer utility dedicated to a single mission – to protect public health and the environment by providing high-quality, safe, and reliable water and wastewater services.

Continuous improvement comes from our ongoing participation in programs and associations, including the Partnership for Safe Water, Lehigh Valley Water Suppliers, American Water Works Association, the PA-DEP Source Water Protection Technical Assistance Program, and the Pennsylvania Association of Accredited Environmental Laboratories. It also comes from our professional staff of water plant operators, laboratory technicians, customer service personnel, and distribution system operators, who provide the highest quality service possible, every single day.

## Your Water Meets All Safety Standards

Your drinking water met **all federal and state safety standards in 2025**.  
Lehigh County Authority (LCA) is proud to report:

- No water quality violations
- Continuous testing throughout the year
- Ongoing investment in treatment, monitoring, and infrastructure

This report contains detailed information about your water quality. As you review this information, please feel free to contact LCA with questions and learn more about our commitment to our customers. **Thank you!**

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**Service Area:** Portions of Upper Macungie, Lower Macungie, Salisbury, South Whitehall, Upper Milford, Weisenberg, and Lowhill townships.

**Number of Customers:** 19,628 properties served.

### Where Your Drinking Water Comes From:

14 wells located throughout the service area, plus an interconnection with LCA's Allentown Division water system, produce an average of 11.4 million gallons of water per day. The Allentown Division draws its water from two large springs, the Little Lehigh Creek and the Lehigh River.

### Water Treatment:

Water from LCA's wells is disinfected with chlorine to kill bacteria. No other treatment is necessary to ensure a safe supply of drinking water. The Allentown Division water supply is treated at LCA's full-scale water filtration plant located in Allentown.

### Why is this report important?

The information in this report may be especially important for some groups, such as the elderly, people with compromised immune systems, and infants (see "A Note From EPA" on page 4). If you are viewing this report, but the water from LCA is provided to tenants, patients, customers, or employees who use your property, please make a copy of this report available to them as well. Thank you!

## We Protect the Source

The Pennsylvania Department of Environmental Protection (PA-DEP) completed an initial Source Water Assessment of the springs and surface water sources that supply water to your water system in 2004. An update to this assessment was completed in 2011 through PA-DEP's Source Water Protection Technical Assistance Program. Public meetings were held in 2011 to review the assessment, and completed reports are available for review by LCA customers, municipalities served by LCA's water systems, and local planning agencies. The assessment found that LCA's sources of water are located within residential, commercial, and industrial areas and, therefore, are susceptible to potential sources of contamination from related activities. Examples include leaking underground storage tanks, winter road salt applications, and household activities such as lawn fertilizing and improper disposal of household hazardous wastes. Please contact LCA if you are interested in learning more about the Source Water Protection plan. A summary of the report is available by contacting LCA, and additional information is available on the PA-DEP website at [www.dep.state.pa.us](http://www.dep.state.pa.us) (use the keyword "Source Water Protection").

Visit our interactive webpage on Source Water Protection to learn ways you can help protect drinking water at <https://www.lehighcountyauthority.org/source-water-protection/>

## Ways You Can Help Protect the Source

**Here are some ways you and your family can help protect source water:**

**Don't Dump:** Anything you put on the ground or down a storm drain can end up in our groundwater or other water sources. Contact the Lehigh County Office of Solid Waste at 610-799-4177 to learn how to dispose of household hazardous wastes.

**Lawn Care:** Use only as much fertilizer as your lawn or garden really needs, and clean up after your pets!

**Care for Your Car:** Oil spots left on driveways and parking lots can be washed away with the rain and end up in the environment.

**Report Spills:** Call 9-1-1 if you witness accidental or intentional dumping of unknown substances into our environment!

## A Note from EPA

### What Is in Your Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and it can pick up substances from 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 the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) prescribes regulations that limit the amount of certain contaminants in the water provided by public water systems. The Food and Drug Administration (FDA) 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 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](tel:800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people, such as people with cancer undergoing chemotherapy, people 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 healthcare providers. EPA/CDC guidelines on appropriate ways to lower the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at 800-426-4791.

***If you are viewing this report, but the LCA water is actually provided to tenants, patients, customers, or employees who use your property, please make a copy of this report available to them as well. Thank you!***

## What's NOT in your drinking water?

In addition to the substances shown in this report, LCA tests your water for many other substances that were NOT detected in your water. These tests are routinely conducted according to schedules and procedures outlined in state and federal regulations for safe drinking water.

**Substances LCA tests for include:** Microbiological Contaminants, Disinfection By-Products, Radioactive Contaminants, Volatile Organic Contaminants, Inorganic Contaminants, Synthetic Organic Contaminants

Except for those listed in the charts in this report, none of the substances we have tested for have been detected in your drinking water. For detailed information about our water quality monitoring program, please call LCA at 610-398-1444.

## Water Testing Frequency

The monitoring results shown in this report include information from calendar year 2025. Annual testing is not required for all contaminants. Some are on multi-year cycles, based on schedules determined by state and federal regulations. We also test for contaminants such as total coliform and chlorine many times throughout the year, as the results may change as environmental conditions change.

## Cryptosporidium

Cryptosporidium is a microbial parasite commonly found in surface water, and the City of Allentown has monitored for it in both the surface water sources – the Little Lehigh Creek and the Lehigh River. This monitoring concludes that Cryptosporidium is present in low concentrations, and DEP has determined that no additional treatment is needed for effective removal. Customers should be aware that Cryptosporidium is capable of causing a disease called cryptosporidiosis. Symptoms include diarrhea, abdominal cramping, and nausea. Healthy individuals usually overcome the illness in a few weeks. However, immunocompromised individuals are at greater risk of developing serious, chronic illnesses. These people should consult a physician to discuss precautions to avoid infection. Cryptosporidium must be ingested to develop disease, and it may be spread through means other than drinking water.

## Nitrates in Drinking Water

Nitrate in drinking water at levels above 10 ppm is a health risk for infants less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your healthcare provider.

## Any Water Quality Violations in 2025?

LCA faced no water quality violations in your water system in 2025!

# Water Quality Test Results

See pages 12-13 for abbreviations and definitions.

## Chemical Contaminants

| Contaminant Name                     | MCL (Maximum Allowed) | MCLG (Goal)  | LCA's Water Test Results      | Range of LCA's Test Results | Sample Date | Pass or Fail? | Typical Source                                                                                                            |
|--------------------------------------|-----------------------|--------------|-------------------------------|-----------------------------|-------------|---------------|---------------------------------------------------------------------------------------------------------------------------|
| Chlorine (as Cl <sub>2</sub> ) (ppm) | MaxRDL = 4            | Max RDLG = 4 | 1.16                          | 0.95 – 1.16                 | 2025        | Pass          | Water additive used to control microbes                                                                                   |
| Total Trihalomethanes (ppb)          | 80                    | N/A          | 54.7 (running annual average) | 2.70 – 66.3                 | 2025        | Pass          | By-product of drinking water chlorination                                                                                 |
| Haloacetic Acids (ppb)               | 60                    | N/A          | 31.4 (running annual average) | ND – 56.2                   | 2025        | Pass          | By-product of drinking water disinfection                                                                                 |
| Nitrate (ppm)                        | 10                    | 10           | 7.50                          | ND – 7.50                   | 2025        | Pass          | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits                               |
| Barium (ppm)                         | 2                     | 2            | 0.064                         | 0.014 – 0.064               | 2024        | Pass          | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits                                |
| Chromium (ppb)                       | 100                   | 100          | 2                             | ND – 2                      | 2024        | Pass          | Discharge from steel and pulp mills; Erosion of natural deposits                                                          |
| Fluoride (ppm) *                     | 2                     | 2            | 0.55                          | 0.24 – 0.55                 | 2025        | Pass          | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |

\* *Fluoride*: LCA adds fluoride to the drinking water in Allentown as a requirement of the lease of the water system from the City of Allentown. The Allentown water typically contains fluoride levels up to 0.6 ppm, which is blended with well water to serve your home. Customers may be receiving a blended amount of fluoride at any time that ranges from 0 – 0.6 ppm.

## Chemical Contaminants Continued

| Contaminant Name                           | MCL (Maximum Allowed) | MCLG (Goal) | LCA's Water Test Results | Range of LCA's Test Results | Sample Date | Pass or Fail? | Typical Source                                                                                   |
|--------------------------------------------|-----------------------|-------------|--------------------------|-----------------------------|-------------|---------------|--------------------------------------------------------------------------------------------------|
| Selenium (ppb)                             | 50                    | 50          | 2                        | ND – 2                      | 2025        | Pass          | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines |
| Asbestos (MFL)                             | 7                     | 7           | 0.17                     | ND – 0.17                   | 2021        | Pass          | Decay of asbestos cement water mains; Erosion of natural deposits                                |
| Tetrachloroethylene (ppb)                  | 5                     | 0           | 2.9                      | 2.9                         | 2025        | Pass          | Discharge from factories and dry cleaners                                                        |
| Perfluorooctane Sulfonic Acid (PFOS) (ppt) | 18                    | 14          | 6.46                     | ND – 6.87                   | 2025        | Pass          | Discharge from manufacturing facilities and runoff from land use activities                      |
| Perfluorooctanoic Acid (PFOA) (ppt)        | 14                    | 8           | 6.08                     | ND – 6.08                   | 2025        | Pass          | Discharge from manufacturing facilities and runoff from land use activities                      |

## Total Chlorine Residual

### Entry Point Disinfectant Residual

| Contaminant Name                     | MCL (Maximum Allowed)                             | MCLG (Goal) | LCA's Water Test Results     | Range of LCA's Test Results | Sample Date | Pass or Fail? | Typical Source                          |
|--------------------------------------|---------------------------------------------------|-------------|------------------------------|-----------------------------|-------------|---------------|-----------------------------------------|
| Chlorine (as Cl <sub>2</sub> ) (ppm) | MinRDL = Not less than 0.40 for more than 4 hours | N/A         | Lowest Detected Level = 0.45 | 0.45 – 2.43                 | 2025        | Pass          | Water additive used to control microbes |

## Lead and Copper Testing

Tested throughout the Central Lehigh Division. Testing is done every 3 years. Most recent tests were done in 2022.

| Contaminant Name | Action Level (AL) | MCLG (Goal) | 90 <sup>th</sup> Percentile Value | Range of LCA's Test Results | # of Sites above AL of Total Sites | Pass or Fail? | Typical Source                                                                                         |
|------------------|-------------------|-------------|-----------------------------------|-----------------------------|------------------------------------|---------------|--------------------------------------------------------------------------------------------------------|
| Copper (ppm)     | 1.3               | 1.3         | 0.094                             | 0.011 – 0.127               | 0 out of 30                        | Pass          | Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives |
| Lead (ppb)       | 15                | 0           | 2                                 | ND – 4                      | 0 out of 30                        | Pass          | Corrosion of household plumbing systems; Erosion of natural deposits                                   |

## Other Contaminants

### Turbidity

A Measure of Clarity (Tested at Allentown Treatment Plant).

| Contaminant Name | MCL (Maximum Allowed)                                                              | MCL G (Goal) | LCA's Water Test Results | Range of LCA's Test Results | Sample Date | Pass or Fail? | Typical Source                                                                         |
|------------------|------------------------------------------------------------------------------------|--------------|--------------------------|-----------------------------|-------------|---------------|----------------------------------------------------------------------------------------|
| Turbidity (NTU)  | $\frac{TT = 1}{TT = \text{at least 95\% of monthly samples} \leq 0.3 \text{ NTU}}$ | 0            | $\frac{0.097}{100\%}$    | N/A                         | 2024        | Pass          | Measure of water cloudiness, caused by soil runoff. An indicator of filter performance |

*NTU - Nephelometric Turbidity Units: Turbidity is measured with an instrument called a nephelometer. Measurements are given in nephelometric turbidity units.*

## Unregulated Contaminant Monitoring

Unregulated contaminants are those for which 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.

| Contaminant Name                     | Reported Level (Average)<br>ppt | Range of Results<br>ppt |
|--------------------------------------|---------------------------------|-------------------------|
| Perfluorobutanesulfonic acid (PFBS)  | 2.37                            | ND – 6.3                |
| Perfluorohexanesulfonic acid (PFHxS) | 2.42                            | ND – 2.98               |
| Perfluorononanoic acid (PFNA)        | 1.69                            | ND – 2.11               |

## Learn about PFAS

Visit the Lehigh County Authority website to learn more about Perfluoroalkyl and Polyfluoroalkyl substances at [www.lehighcountyauthority.org/information-about-pfas/](http://www.lehighcountyauthority.org/information-about-pfas/).

## Focus on 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. LCA is responsible for providing high-quality drinking water and removing lead pipes, but LCA cannot control the variety of materials used in plumbing components in your home. You share responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials in your home 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 washing 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 want to have your water tested, contact LCA at 610-437-7515. 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>.

LCA is working to identify customers' water service line material for our lead pipe replacement efforts. Learn more on our website and view a searchable map to see what our records show for your property: <https://www.lehighcountyauthority.org/leadfree/>.

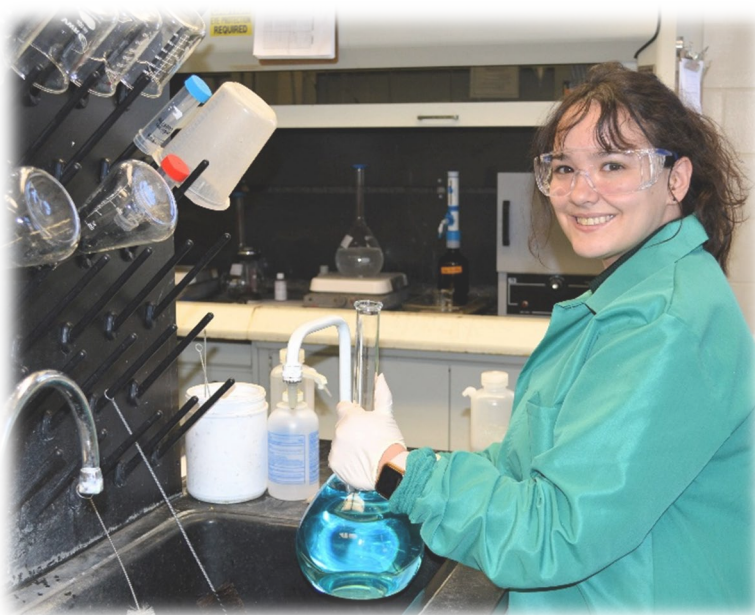
## Ways You Can Impact Your Water Quality

### Run Water After Vacation

Water quality in your home is affected by how “stale” the water is from standing. When you leave your home or business for a long time, as you may when you take a vacation, the water in the pipes and plumbing doesn’t move. When water has been sitting in the pipes for days, bacteria can grow, and if you have lead or copper plumbing, those metals can start to seep into the water. The best thing to do when you get back from being away after a long time is to run the water on full blast for 30 seconds to two minutes before using it for drinking or cooking. And always use cold water for cooking, to draw in fresh water from the outside.

### Safely Connect Outdoor Hoses

Connections to your water outside your home can also impact water quality. The outdoor spigot connection to a hose provides a potential way for pollutants to enter your plumbing. If you use the hose to spray chemicals on your yard by connecting the nozzle to a spray bottle, or if you have a sprinkler system connected, there is the potential for chemicals from the bottle or the lawn to be accidentally sucked back into your internal plumbing. To prevent this from happening, we recommend (and in some states it is the law) that you have a backflow prevention device installed to prevent that from happening.



## Water Hardness, pH & Other Useful Info

Water “hardness” is a measure of the mineral content in your water. These minerals, such as calcium and magnesium, are essential to human health and do not need to be removed from your drinking water. However, some customers prefer to remove these minerals with a water softener to avoid mineral deposits on faucets and other fixtures.

### **Hardness Scale:**

- 0 - 5 grains per gallon = Soft Water
- 6 - 10 grains per gallon = Moderately Hard Water
- > 11 grains per gallon = Hard Water

## Secondary Contaminant Analysis

| Contaminant Name                   | MCL       | Your Water – Average | Range of Results |
|------------------------------------|-----------|----------------------|------------------|
| Alkalinity (ppm)                   | N/A       | 164                  | 103 – 215        |
| Calcium (ppm)                      | N/A       | 63.3                 | 48.0 – 94.2      |
| Iron (ppm)                         | 0.3       | ND                   | ND               |
| Magnesium (ppm)                    | N/A       | 22.3                 | 10.6 – 35.2      |
| Manganese (ppm)                    | 0.05      | ND                   | ND               |
| pH (standard units)                | 6.5 – 8.5 | 7.73                 | 7.52 – 7.86      |
| Sodium (ppm)                       | N/A       | 25.5                 | 14.3 – 39.3      |
| Total Dissolved Solids (ppm)       | 500       | 332                  | 254 – 414        |
| Total Hardness (grains per gallon) | N/A       | 15                   | 13 - 19          |

Secondary contaminants are associated with the aesthetic qualities of drinking water, such as taste, smell, color, and formation of deposits on plumbing fixtures. When a secondary contaminant MCL is exceeded, you may notice a change in the color, smell, or taste of your tap water.



## Additional Resources

**Information on lead in drinking water:** [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead)

**Information on groundwater:** <https://waterdata.usgs.gov/nwis> and <http://www.epa.gov/ground-water-and-drinking-water/>

**Delaware River Basin Commission:** <https://www.nj.gov/drbc/>

**The Safe Drinking Water Act:** [www.epa.gov/sdwa](http://www.epa.gov/sdwa)

**CDC Guide to Understanding your Water Quality Report (also known as the Consumer Confidence Report):** <https://www.cdc.gov/drinking-water/about/how-to-read-drinking-water-quality-reports.html>

**American Water Works Association:** <http://www.awwa.org>

**Water Environment Federation:** <http://www.wef.org>

**Pennsylvania Department of Health: 1-877-724-3258** | <https://www.health.pa.gov/>

## Abbreviations & Definitions

**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.

**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.

**TT** - Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

**AL** - Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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

**MaxRDL** - Maximum Residual Disinfectant Level: 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.

**MaxRDLG** - Maximum Residual Disinfectant Level Goal: This is the lowest amount of cleaning chemical drinking water should have because it is the lowest amount needed to make sure bacteria and viruses can't live.

**Level 1 Assessment** - A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

**Level 2 Assessment** - A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

**pCi/L** - Picocuries per liter (a measure of radioactivity)

**NA** - Not applicable

**N/D** - Not detected

**NR** - Monitoring not required, but recommended

**NTU** - Nephelometric Turbidity Units: Turbidity is measured with an instrument called a nephelometer. Measurements are given in nephelometric turbidity units.

**MFL** – Million fibers per liter

**PPM** - Part Per Million = 1 drop of water in 10 gallons.

**PPB** - Part Per Billion = 1 drop of water in 10,000 gallons.

**PPT** - Part Per Trillion = 1 drop of water in 10,000,000 gallons.





Lehigh County Authority

## Keep in Touch with LCA!

### Monthly Board Meetings

Your input is important to us! Details about board meetings may be found on our website at <https://www.lehighcountyauthority.org/meetings-minutes>.

### Social Media

One way to stay connected with us is by following us on Facebook, X, Instagram, or LinkedIn. We share the latest news on improvement projects we're working on, updates on service interruptions, and helpful tips on conservation, landscaping, and protecting your pipes and water meter.

If you do not currently receive our monthly e-mail newsletter, sign up on our website at <https://www.lehighcountyauthority.org/news-updates/customer-newsletters/>

### Projects and Rates

Infrastructure projects and our rates go hand in hand. Check out our website to learn about projects and ways customers may be affected. We issue annual notices on our website to explain rate increases and keep you informed.

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