



**2018 Drinking Water Quality Report**  
**Macedonia Water Works, Inc.**  
**S.C. DHEC# SC1120005**



We're pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Macedonia Water Works purchases its' water from Gaffney Board of Public Works.

**I'm pleased to report that our drinking water is safe and meets federal and state requirements.**

If you have any questions about this report or concerning your water utility, please contact The Gaffney Board of Public Works Water Treatment Plant at 864-488-8800. We want our valued customers to be informed about their water utility. If you want to learn more, please attend our board meetings held the first Tuesday of each quarter and our annual meeting held the last Tuesday in July at 6:00 PM at the Macedonia Fire Department, 337 Macedonia Road, Gaffney, SC. Additional information can also be found at [www.gbpw.com](http://www.gbpw.com) under the Macedonia Tab.

Macedonia Water Works, Inc. routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2018. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily pose a health risk.

In this table 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:

- *Non-Detects (ND)* - laboratory analysis indicates that the constituent is not present.
- *Action Level (AL)* – the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.
- *Parts per million (ppm) or Milligrams per liter (mg/l)* - one part per million corresponds to one minute in two years or a single penny in \$10,000.
- *Parts per billion (ppb) or Micrograms per liter* – one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- *Maximum Contaminant Level Goal* - The “Goal” (MCLG) is the level of a contaminant in drinking water below that there is no known or expected risk to health. MCLGs allow for a margin of safety.
- *Maximum Contaminant Level* - The “Maximum Allowed” (MCL) is 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.

## Test Results

### LEAD AND COPPER TEST RESULTS (2018)

Contaminant	Violation Y/N	90 <sup>th</sup> percentile	Unit Measurement	Action Level	Sites over action level	Likely Source of Contamination
Copper	N	0.049	ppm	1.3	0	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

### Inorganic Contaminants – Gaffney Board of Public Works

Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCL	MCLG	Likely Source of Contamination
Nitrate (as Nitrogen) 2018	N	0.32	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium **Unregulated Contaminant	N	7.2	Mg/l	N/A	N/A	Naturally Occurring

## Disinfectants and Disinfectant By-Products (Macedonia Water District) (2018)

Chlorine	N	Avg = 0.78 Range 0.59-0.97	ppm	MRD L 4	MRDLG 4	Water additive used to control microbes
Haloacetic acids (HAAs)	N	Avg = 30 Range 20.8-39.2	ppb	60	N/A	By-product of drinking water disinfectant
TTHM (Total trihalomethanes)	N	Avg = 63 Range 32.1-93.7	ppb	80	N/A	By-product of drinking water chlorination

### What does this mean?

**As you can see by the above table, our system had no violations.** We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water *IS SAFE* at these levels.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. 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 (EPA) Safe Drinking Water Hotline at 1-800-426-4791.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

If present, elevated lead levels 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. Macedonia Water District 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 drinking 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>

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. EPA/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 1-800-426-4791.

### “REQUIRED SOURCE WATER ASSESSMENT (SWAP) STATEMENT:

A Source Water Assessment Plan has been completed for our system. If you would like more information on this assessment, please contact The Gaffney Board of Public Works Water Treatment Plant at 864-488-8800 to make arrangements to review this document.”

Please call our office if you have questions.