**TOWN OF BLACKSBURG**

 **YEAR 2016 DHEC # 1110002**

 **2017 ANNUAL WATER-QUALITY REPORT**

We're pleased to present a summary of the water provided to you during the past year. The Safe Drinking Water Act (SDWA) requires utilities to

issue an annual "Consumer Confidence" Report to customers in addition to other notices that maybe required by law. This report details where our

water comes from, what it contains, and the risks our water treatment and testing are designed to prevent. The Town of Blacksburg is committed to providing you with the safest and most reliable water supply. Informed consumers are our best allies in maintaining safe drinking water.

 If you have any questions about this report or concerning your water

Utility, please contact, Charlene Carter, Town Administrator, at (864) 839-2332. Our Council meetings are *typically* held at the Blacksburg Museum at 7 pm on the second Tuesday of the month.

**WATER SOURCE**

The Town of Blacksburg purchases all of our water from the Gaffney

Board of Public Works. The Gaffney Board of Public Works is supplied by surface water from Cherokee Creek and Broad River. Cherokee Creek is dammed to form Lake Welchel and water is pumped as needed from Broad River. This supply then flows to the Plant by gravity as needed.

The source of drinking water (both tap and bottled water) including 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 result from urban storm water 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 storm water 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 storm water runoff, and septic systems.
* Radioactive contaminants, which can be natural-occurring or be the result of oil and gas production and mining activities.

**AN EXPLANATION OF THE WATER-QUALITY DATA TABLE**

This report is based upon test conducted in the year 2016 by the Town of Blacksburg and the Gaffney Board of Public Works. Terms used in the Water Quality Table and in other parts of this report are defined here.

**Maximum Contaminant Level or MCL:** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG's as feasible using the best available treatment technology.

**MAXIMUM CONTAMINANT LEVEL GOAL OR 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.

**ACTIONLEVEL or AL:** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements.

**MCL=**Maximum Contaminant Level

**MCLG=** Maximum Contaminant Level Goal.

**pic\l=** picocuries per liter (a measure of radioactivity)

**ppm=**parts per million, or milligrams per liter (mg/l) Example: ppm-corresponds to one minute in two years or a single penny in $10,000.

**ppb=**parts per billion, or micrograms per liter (mg/l) Example: ppb

corresponds to one minute in 2,000 years or a single penny in $10,000,000.

**MRDL=** (Maximum Residual Disinfection Level) Highest level of a disinfections allowed in drinking water

**MRDLG=** (Maxium Residual Disinfection Level Goal) Level of a drinking water disinfectant below which there is no known or expected risk to health.

 **TOWN OF BLACKSBURG**

 Date Unit MCLG AL Detected Violation Source

 Tested Level

Cooper 2016 ppm 1.3 1.3 90th% =0.047 N Erosion of natural deposits.

 0>AL from wood preservatives.

 Corrosion of household

 plumbing systems.

Lead 2016 ppb 0 15 90th%=22.00 N Corrosion of household

 3>AL plumbing systems. Erosion

 of natural deposits.

Due to *Lead* exceedance at specific residences and household plumbing, The Town of Blacksburg completed system wide water sample testing and public information for customers. The Town of Blacksburg Water System passed all testing at locations throughout the Water System. These tests included BPW Meter, Tanks, and Hydrants.

 Date Unit MCLG MCL Detected Range Violation Source

 Level

Chlorine 2016 ppm MRDLG=4 MRLD=4 1.0 1-1 N Water additive

 used to control

 microbes.

HAA5 2016 ppb no goal for 60 41.0 28.5-53.4 N By-product of

 total drinking water

 disinfection

TTHM 2016 ppb no goal for 80 74.0 46.4-91.1 Y By-product of

 total drinking water

 disinfection.

**VIOLATION** **TABLE**

Total Trihalomethanes (TTHM)

Violation Type Violation Begin Violation End

MCL, LRAA 04/01/2016 06/30/2016

MCL, LRAA 07/01/2016 09/30/2016

Violation Explanation:

Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminants level and abbreviated MCL) for the period.

The TOB is regulated under Consent order for the exceedance beginning June 2016 to present. The TOB water system continues to flush area line to provide fresh potable drinking water to customers. All maintenance has been completed and continues to be up to date. The TOB continues to abide all rules and regulations under the consent order with DHEC and works in conjunction to meet all safety standards. All tests have shown passing levels at the particular location from Sept 2016 to present.

**UNREGULATED CONTAMINATES**

Neither the Town of Blacksburg nor the Gaffney Board of Public Works test for Cryptosporidium or Radon.

**OTHER REQUIRED ADDITIONAL HEALTH INFORMATION (FYI)**

To ensure that tap water is safe to drink, EPA prescribes limits on the amount of certain contaminates in water provided by public water systems.

The FDA regulations establish limits for contaminate in bottle water.

Drinking water including bottled water may reasonably be expected to contain at least small amounts of some contaminates. The presence of

contaminates does not necessarily indicate that water poses a health risk.

More information about contaminates and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking

Water Hotline. (1-800-426-4791).

Some people may be more vulnerable to contaminates 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. EPE/CDC guidelines on appropriate means to lessen

the risks of infection are available from the Safe Drinking Water Hotline (1-800-426-4791).

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 Town of Blacksburg is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components in your residential home, pipes and faucets. 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 it tested. Information on lead in drinking water, testing methods, and steps you can take to minimize your exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

NATIONAL PRIMARY DRINKING WATER REGULATION CLOMLIANCE-OTHER MONITORING

In addition to required testing, voluntary tests for many additional substances and microscopic organisms are performed to make certain our water is safe and of high quality. Water quality data for community water systems throughout the United States is available at www.waterdata.com.

**The Town of Blacksburg continues to strive to provide the safest quality resource for Blacksburg Water System Customers.**

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