

# WATER REPORT 2018

## City of Miamisburg Drinking Water Quality Report For 2018



### Introduction

The City of Miamisburg has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. It should be noted that the

City of Miamisburg's drinking water met all regulatory standards during 2018. Included within this report is general health information, water quality test results, how to participate in decisions concerning your drinking water and water system contacts. The City holds a current, unconditional license to operate its water system.

### Source Water Information

The City of Miamisburg receives its drinking water from the Great Miami River Buried Valley Aquifer System. The City currently uses five (5) production wells to draw water from the Aquifer for treatment at the Water Treatment Facility. The water production wells are located on the land adjacent to the Great Miami River. Ground water is pumped to the Water Treatment Facility where it is treated by chemical oxidation to remove iron and manganese, filtered, treated by reverse osmosis to remove hardness, disinfected with chlorine and fluoridated prior to being pumped to our water customers. Water from the City of Miamisburg Water Treatment Facility formerly had an average hardness of 22 grains per gallon (376 mg/L). With the new reverse osmosis plant up and running, we now average 8 grains per gallon (137 mg/L). The minerals calcium and magnesium make up water hardness. In October of 2018, the City of Miamisburg Water Treatment Facility put its new softening plant online and has gradually reduced the hardness to these current numbers. The City of Miamisburg treated an average of 1.93 million gallons per day. The City of Miamisburg

also has emergency connections with the City of West Carrollton and Montgomery County. These emergency connections were used during an emergency in January of 2018.

The Ohio Environmental Protection Agency (EPA) performed a source water assessment on the City of Miamisburg's source of drinking water to determine its susceptibility. According to this study, the aquifer (water-rich zone) that supplies water to the City of Miamisburg has a high susceptibility to contamination. This determination is based on the following:

- Lack of a protective layer of clay overlying the aquifer;
- Shallow depth (less than 15 feet below ground surface) of the aquifer (although Miamisburg does not get its water from this shallow one. City water comes from a much deeper aquifer below this shallow aquifer);
- The presence of significant potential contaminant sources in the area; and
- The presence of man-made contaminants in the aquifer. 1,1,1-trichloroethane, Tetrachloroethene and Trichloroethene were detected in the raw water.

*Continued on page 2 >*

