



# JEFFERSON COUNTY WATER AND SEWER DISTRICT

## 2009 WATER QUALITY REPORT For Service Area A

### Introduction

The Jefferson County Water and Sewer District (JCWSD) has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. 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.

### License to Operate (LTO) Status

We have a current, unconditional license to operate our water system.

### Source Water Information

The JCWSD does not own a water treatment plant. Therefore, it must purchase all the water it delivers to its customers from various suppliers. The vast network of pipelines, storage tanks, and booster pump stations used to distribute water by the JCWSD are divided into different service areas. The Table below lists the different service areas and corresponding supplier.

SERVICE AREA	SUPPLIER
B-1, M, PHKE	City of Toronto Water Department
O, J	City of Steubenville Water Department
A	<b>Brilliant Water and Sewer District</b>
PINEY FORK & STATE ROUTE 152	Brilliant Water and Sewer District / Village of Tiltonsville Water and Sewer Department
G1 & G2	Village of Tiltonsville Water and Sewer Department

The Brilliant Water & Sewer District's water source comes from two (2) wells. #1 Well is 62' deep and #2 Well is 77' deep. These wells are located at the water treatment plant which is located at North Market Street, in Brilliant, Ohio. These wells are designated as ground water supply meaning that no surface water enters the well supply. The water is softened through ion exchange and is treated with a polyphosphate solution and then it is Chlorinated with Sodium Hypochlorite before it goes into the system.

Brilliant's source water assessment has been completed by the Ohio EPA. For information on how to obtain a copy of this report, please visit Ohio EPA's Source Water Assessment and Protection Program Web page at <http://www.epa.state.oh.us/ddagw/pdu/swap.html> or contact the Jefferson County Water and Sewer District.

### What are the sources of contamination to drinking water

The sources of both tap water and bottled water include 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: (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife; (B) 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; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water

runoff, and residential uses; (D) 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; (E) radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by the public water systems. 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 health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791)

### Who needs to take special precautions?

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 infection. 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 Safe Drinking Water Hotline (1-800-426-4791).

### Additional Information for Lead

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. JCWSD 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 at 800-426-4791 or at <http://www.epa.gov/safewater/lead>.

### About your drinking water

The EPA requires regular sampling to ensure drinking water safety. The JCWSD and the Brilliant Water and Sewer Department conducted sampling for; bacteria; Nitrate, and contaminants during 2009. The Ohio EPA requires us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old.

Listed below is information on the contaminants that were found in the JCWSD Water system as the result of monitoring by the Brilliant Water and Sewer District and the JCWSD.

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detection's	Violation	Sample Year	Typical Source of Contaminants
<b>Inorganic Contaminants</b>							
Lead (ppb)	0	AL = 15	0	NA	No	2009	Corrosion of household plumbing systems; erosion of natural deposits.
Copper (ppm)	1.3	AL = 1.3	0.268	NA	No	2009	Corrosion of household plumbing systems; erosion of natural deposits
Nitrate (ppm)	10	10	1.34	NA	No	2009	Runoff from fertilizer use; Leaching from septic tanks, sewage; erosion of natural deposits
Barium (ppm)	2	2	0.0528	NA	No	2009	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

Note: Contaminant Table is continued from previous page							
Contaminants (Units)	MCLG	MCL	Level Found	Range of Detection's	Violation	Sample Year	Typical Source of Contaminants
<b>Volatile Organic Contaminants</b>							
Total Trihalomethanes (ppb)	N/A	80	32.2	NA	No	2009	By-product of drinking water disinfection
Five Haloacetic Acids (ppb)	N/A	60	5.1	NA	No	2009	By-product of drinking water chlorination
<b>Residual Disinfectants</b>							
Chlorine (ppm)	MRDLG=4	MRDL=4	0.7	0.5-1.0	No	2009	Water additive used to control microbes

### How do I participate in decisions concerning my drinking water?

Public participation and comment are encouraged at regular meetings of the Jefferson County Board of Commissioners which meets every Thursday morning at 9:00 A.M. at 301 Market Street, Steubenville, Ohio 43952.

**For help obtaining more information** on your drinking water contact the Customer Service Department of the JCWSD at (740) 283-8577.

### Definitions of some terms contained within this report.

**Maximum Contaminant Level Goal (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.

**Maximum Contaminant levels (MCL):** The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**Parts per Million (ppm) or Milligrams per Liter (mg/L)** are units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.

**Parts per Billion (ppb) or Micrograms per Liter (µg/L)** are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.

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

The “<” symbol: A symbol, which means less than. A result of <5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected

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