

# Clyde Water Treatment Plant

## 2000 Consumer Confidence Report for Drinking Water

The City of Clyde Water Treatment Plant 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.

### Source Water Information:

The Clyde Water Plant receives surface water from the Beaver Creek watershed. This watershed covers an area of approximately 56 Square miles and the water received needs extensive treatment before being delivered to your homes. On average, we pump 250-500 Million gallons of water a year from the runoff of this area and produce 350-500 Million gallons of treated water a year.

### What are sources of contamination to 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 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 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 a 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).

### About your drinking water.

The EPA requires regular sampling to ensure drinking water safety. The Clyde Water Plant conducted sampling for bacteria; inorganic; radiological; synthetic organic; and volatile organic contaminants (VOC) sampling during 2000. Samples were collected for a total of 93 different contaminants, most of which were not detected in the Clyde water supply. 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.

### Monitoring and Reporting Violations:

During the month of June 2000 the City of Clyde Water Treatment Plant failed to collect the required number of Total Coliform Bacteria samples as required by the Environmental Protection Agency. The Clyde Water Treatment Plant returned to compliance with bacteria sampling requirements in the month following the violation. Steps have been taken to insure that all sampling will be conducted as required, by changing collection procedures.

Listed below is information on those contaminants that were found in the City of Clyde drinking water.

### Table of Detected Contaminants

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
<b>Microbiological Contaminants</b>							
Turbidity (NTU)	NA	TT	0.749	.04-0.749	No	2000	Soil Runoff
Turbidity (% samples meeting standards)	NA	TT	99.6%	99.6-100%	No	2000	Soil Runoff
<b>Radioactive Contaminants</b>							
Beta/Photon Emitters (pCi/L) *	0	AL=50	<4.00	NA	No	2000	Decay of natural and man-made products
<b>Inorganic Contaminants</b>							
Copper (ppm)	1.3	AL=1.3	.153	.05-.355	No	1999**	Corrosion of household plumbing systems, erosion of natural products
Zero samples out of twenty was found to have copper levels in excess of the Action Level of 1.3 ppm.							
Fluoride (ppm)	1.3	4.0	1.17	.86-1.17	No	2000	Erosion of natural deposits, Water additive to promote strong teeth.
Lead (ppb)	0	AL=15	<5.0	<5 - 92	No	1999**	Corrosion of household plumbing systems
One sample out of twenty was found to have lead levels in excess of the Action Level of 15 ppb.							
Nitrate (ppm)	10	10	1.8	<0.10-1.8	No	2000	Runoff from fertilizer use; Erosion of natural deposits
<b>Synthetic Organic Contaminants including Pesticides and Herbicides</b>							
Atrazine (ppb)	3.0	3.0	0.390	NA	No	2000	Runoff from herbicide used on row crops.
<b>Volatile Organic Contaminants</b>							
TTHM's (ppb) Total Trihalomethane	0	100	73.2	NA	No	2000	By-product of drinking water chlorination
Chloroform (ppb)	NA	NA	62	NA	No	2000	By-product of drinking water chlorination

\* EPA considers 50 pCi/l to be the level of concern for beta particles.

\*\* Lead and Copper tests will be done again in 2002.

Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. The turbidity limit set by the EPA is <0.5 NTU in 95% of the daily samples and shall not exceed 5 NTU at any time. As reported above, the Clyde Water Plant highest recorded turbidity result for 2000 was 0.749 NTU and lowest monthly percentage of samples meeting the turbidity limits was 99.6%.

Public participation and comment are encouraged at regular meetings of Clyde City Council, which meets on the 1<sup>st</sup> and 3<sup>rd</sup> Tuesday of each month at 7:00 PM, at the Clyde City Hall Council Room.

#### For more information on your drinking water:

Contact Marc Hudson, Water Plant Superintendent, at (419) 547-9805.

**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 level (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)** 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)** are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.

**Picocuries per liter (pCi/l)**: Picocuries per liter are the measurement of radioactivity in water.

**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 that 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.

**Nephelometric Turbidity Units (NTU)**: Nephelometric turbidity units are a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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

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

**Not Applicable:** NA