

The Water We Drink

We are pleased to present to you this year's Annual Drinking 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 our water.

The Village of Dunkirk's Water System is served by two wells, drilled to a depth of 210 feet; these wells provide between 105 and 160 gallons per minute. In 2011, the village pumped 36 million gallons. The wells are located at the water treatment plant on SR 81. We have a current, unconditioned license to operate our water system.

The Village completed a Wellhead Protection Plan, which is available for public review. Appointments can be made to review the plan by contacting the water treatment plant at (419) 759-2102. This plan identifies the boundaries and size of the underground aquifer and the direction of flow of water to the Village's well field. A citizen's committee has been appointed to assist the Village with explaining the importance of our well water supply.

If you have any questions about this report or concerning your water utility, please contact Paul Cramer at (419) 759-2102. You can participate in decisions regarding your water by attending a Council meeting. The Council meets on the 1st and 3rd Monday of each month at 7:00 at 201 N. Main Street, Village Hall, and the Board of Public Affairs meets on the 2nd and 4th Monday of each month at 5:00 p.m. Your input is always welcome.

Village of Dunkirk
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Dunkirk, OH 45836

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Village of Dunkirk

2011 Annual Drinking Water Quality Report



The sources of drinking water - both tap 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 also can 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 the 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.

The Village of Dunkirk routinely monitors for contaminants in your drinking water according to Federal and State laws. The table included shows the results of our monitoring for the period through December 31st, 2011.

All drinking water, including bottled drinking water, may reasonably be expected to contain at least small amounts of some contaminants. It's important to remember the presence of these contaminants does not necessarily pose a health risk.

Please note:

Some people may be more vulnerable to drinking water contaminants than the general population. Immuno-compromised persons, such as persons with cancer undergoing chemotherapy, people who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly individuals, and infants can be particularly at risk from infections.

These people should seek advice from their health care providers about drinking water. EPA/CDC guidelines regarding the appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the safe drinking Water Hotline at (800) 426-4791.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline, (800) 426-4791.

EPA Safe Drinking Water Hotline
(800) 426-4791
Call for any questions
concerning water quality

Results

Contaminants	MCLG	MCL	Level Found	Range of Detection	Violation	Sample Year	Typical Contaminant Source
Inorganic							
Fluoride (ppm)	4	4	1.47	n/a	No	2009	Erosion of natural deposits
Barium (ppm)	2	2	.03	n/a	No	2009	Erosion of natural deposits
Nitrate (ppm)	10	10	1	n/a	No	2011	Erosion of natural deposits
Lead (ppb)	0	AL=15	4.4	n/a	No	2011	Corrosion of household plumbing systems
Zero out of 10 samples was found to have lead levels in excess of the lead action level of 15 ppb							
Copper (ppm)	0.1	AL-1.3	1.20	n/a	No	2011	Corrosion of household plumbing systems
Zero out of 10 samples was found to have copper levels in excess of the copper action level of 13 ppm							
Residual Disinfectants							
Total Chlorine (ppm)	MRDL = 4	MRDL G-4	1	0.9-1	N	2011	Water additive used to control microbes

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 Village of Dunkirk 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/sdswater/lead>.

The following terms apply to the chart above:

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.

Part per Billion (ppb) or Micrograms per Liter (ug/l): Units of measure for concentration of a contaminant. A part per billion corresponds to one second in 317 years.

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

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

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

Maximum Residual Disinfect Level (MRDL): The highest residual disinfectant level allowed.

Maximum Residual Disinfectant level Goal (MRDLG): The level of residual disinfectant below which there is no known or expected risk to health.