

### Interesting Facts and Tips

In 1900, 25,000 Americans died of typhoid. By 1960, thanks to the use of chlorine in water treatment, that number dropped to 20.

The average faucet flows at a rate of 2 gallons per minute. You can save up to four gallons of water every morning by turning off the faucet while you brush your teeth.

If you drink your daily recommended 8 glasses of water per day from the tap, it will cost you about 50 cents per year. If you choose to drink it from water bottles, it can cost you up to \$1,400 dollars.

A running toilet can waste up to 200 gallons of water per day.

You can play a role in conserving water and saving yourself money in the process by becoming conscious of the amount of water your household is using and by looking for ways to use less whenever you can. It is not hard to conserve water. Here are a few tips:

Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.

Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.

Check your toilets for leaks by putting a few drops of food coloring in the tank. Watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from an invisible toilet leak. Fix it and you save more than 30,000 gallons a year.

Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.

Veterinarians generally recommend that water bowls be washed daily with warm, soapy water — normally when you change the water. Scour the corners, nooks, and crannies of the water dish using a small scrub brush. In addition, once a week put water bowls into the dishwasher to sanitize them with hot water.



## Water Quality Report for 2014

Water System ID: KY0930333  
Manager: Russell D. Rose  
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CCR Contact: Gary Allen  
502-222-1690  
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Mailing address:  
P.O. Box 51  
Buckner, KY 40010

Meeting location and time:  
Buckner Office – 3707 West Highway 146  
Second Tuesday each month at 6:00 PM



This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

Oldham County Water District customers are fortunate because we enjoy an abundant water supply from a groundwater source. The Oldham County Water Treatment Plant draws water from wells drilled into the Ohio River alluvial aquifer, which holds several billion gallons of water. The Oldham County Water Treatment Plant was constructed in 1981 and was expanded in 2011 to increase capacity to 13 MGD. The treatment facility provides roughly 1.5 billion gallons of clean drinking water every year. An analysis of the susceptibility of the District's water supply to contamination indicates that this susceptibility is generally moderate. There are, however, a few areas of concern in the immediate vicinity of our water wells. These include row crops, septic systems, some permitted operations, and road exposure that cumulatively increase the potential for release of contaminants within the wellhead protection area. The summary of the water systems susceptibility to contamination is part of the completed Wellhead Protection Plan that is available for inspection during normal business hours at our office.

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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 may 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, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides,

(stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

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 infections. 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 (800-426-4791).

### **Information About 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. Your local public water system 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 or at <http://www.epa.gov/safewater/lead>.



The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old.

**Regulated Contaminant Test Results**

Contaminant [code] (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
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**Microbiological Contaminants**

Total Coliform Bacteria # or % positive samples	1	0	1	N/A	2014	No	Naturally present in the environment
Alpha emitters [4000] (pCi/L)	15	0	0.43	0.43 to 0.43	Apr-09	No	Erosion of natural deposits
Combined radium (pCi/L)	5	0	0.54	0.54 to 0.54	Apr-09	No	Erosion of natural deposits
Uranium (µg/L)	30	0	0.07	0.07 to 0.07	Apr-09	No	Erosion of natural deposits
Barium [1010] (ppm)	2	2	0.036	0.036 to 0.036	Jan-14	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	0.772 (90 <sup>th</sup> percentile)	0.089 to 0.957	Jul-13	No	Corrosion of household plumbing systems
Fluoride [1025] (ppm)	4	4	1.02	1.02 to 1.02	Jan-14	No	Water additive which promotes strong teeth
Lead [1030] (ppb) sites exceeding action level 0	AL = 15	0	0 (90 <sup>th</sup> percentile)	0 to 5	Jul-13	No	Corrosion of household plumbing systems
Nitrate [1040] (ppm)	10	10	1.21	0.11 to 1.21	Jan-14	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Chlorine (ppm)	MRDL = 4	MRDLG = 4	0.94 (highest average)	0.6 to 1.54	2014	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) [Haloacetic acids]	60	N/A	5 (high site average)	2 to 10 (range of individual sites)	2014	No	Byproduct of drinking water disinfection
TTHM (ppb) (Stage 2) [total trihalomethanes]	80	N/A	24 (high site average)	12.1 to 25 (range of individual sites)	2014	No	Byproduct of drinking water disinfection.

Unregulated Contaminants (UCMR 3)	average	range (ppb)	date
1,4-dioxane	0.170	0.13 to 0.21	May-13
vanadium	0.275	0.2 to 0.3	May-13
molybdenum	3.275	2.9 to 3.8	May-13
strontium	115.000	110 to 120	May-13
chromium-6	0.153	0.08 to 0.18	May-13
chlorate	122.500	20 to 190	Nov-13

EPA has not established drinking water standards for unregulated contaminants. There are no MCL's and therefore no violations if found.

Our water system has sampled for a series of unregulated contaminants. Unregulated contaminants are those that don't yet have a drinking water standard set by EPA. The purpose of monitoring for these contaminants is to help EPA decide whether the contaminants should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours.

Fluoride (added for dental health)	Average	Range of Detection
	1.0	0.83 to 1.16
Sodium (EPA guidance level = 20 mg/L)	21.0	21 to 21

**Some or all of these definitions may be found in this report:**

- Maximum Contaminant Level (MCL)** - the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- 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 Residual Disinfectant Level (MRDL)** - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Maximum Residual Disinfectant Level Goal (MRDLG)** - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Below Detection Levels (BDL)** - laboratory analysis indicates that the contaminant is not present.
- Not Applicable (N/A)** - does not apply.
- Parts per million (ppm)** - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000.
- Parts per billion (ppb)** - or micrograms per liter, (µg/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- Parts per trillion (ppt)** - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.
- Parts per quadrillion (ppq)** - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.
- Picocuries per liter (pCi/L)** - a measure of the radioactivity in water.
- Millirems per year (mrem/yr)** - measure of radiation absorbed by the body.
- Million Fibers per Liter (MFL)** - a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- Nephelometric Turbidity Unit (NTU)** - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.
- Variances & Exemptions (V&E)** - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
- Action Level (AL)** - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.
- Treatment Technique (TT)** - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.