What's In My Water?

The are pleased to report that during the past year, the water delivered to your home or business complied with, or did better than, all state and federal drinking water requirements. For your information, we have compiled a list in the table below showing which substances were detected in our drinking water during 2002. Although all of the substances listed below are under the Maximum Contaminant Level (MCL) set by the U.S. EPA, we feel it is important that you know exactly what was detected and how much of the substance was present in the water. The state requires us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.



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REGULATED SUBSTA	ANCES						
SUBSTANCE (UNITS)	YEAR SAMPLED	MCL	MCLG	AMOUNT DETECTED	RANGE (LOW-HIGH)	VIOLATION	TYPICAL SOURCE
Fluoride (ppm)	2002	4	4	0.87	0.45-1.29	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate (ppm)	2002	10	10	1.38	1.03-1.38	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
TTHMs [Total Trihalomethanes] (ppb)	2002	80	0	13.1	10.8-15.4	No	By-product of drinking water disinfection
Turbidity (NTU) ¹	2002	TT	NA	0.43	0.08-0.43	No	Soil runoff

SUBSTANCE (UNITS)	YEAR SAMPLED	AL	MCLG	AMOUNT DETECTED (90TH%TILE)	NO. OF HOMES ABOVE AL	VIOLATION	TYPICAL SOURCE
Copper (ppm)	2001	1.3	1.3	0.5615	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead (ppb)	2001		15 0	5.6	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

'Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality and the effectiveness of disinfectants.

Contamination from Cross-connections

ross-connections that could contaminate drinking water distribution lines are a major concern. A cross-connection is formed at any point where a drinking water line connects to equipment (boilers), systems containing chemicals (air conditioning systems, fire sprinkler systems, irrigation systems) or water sources of questionable quality. Cross-connection contamination can occur when the pressure in the equipment or system is greater than the pressure inside the drinking water line (backpressure). Contamination can also occur when the pressure in the drinking water line drops due to fairly routine occurrences (main breaks, heavy water demand) causing contaminants to be sucked out from the equipment and into the drinking water line (backsiphonage).

Outside water taps and garden hoses tend to be the most common sources of cross-connection contamination at home. The garden hose creates a hazard when submerged in a swimming pool or when attached to a chemical sprayer for weed killing. Garden hoses that are left lying on the ground may be contaminated by fertilizers, cesspools or garden chemicals. Improperly installed valves in your toilet could also be a source of cross-connection contamination.

Community water supplies are continuously jeopardized by cross-connections unless appropriate valves, known as backflow prevention devices, are installed and maintained. We have surveyed all industrial, commercial, and institutional facilities in the service area to make sure that all potential cross-connections are identified and eliminated or protected by a backflow preventer. We also inspect and test each backflow preventer to make sure that it is providing maximum protection.

For more information, visit the Web site of the American Backflow Prevention Association (www.abpa.org) for a discussion on current issues.

Substances Expected to be in Drinking Water

o ensure that tap water is safe to drink, the U.S. EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration 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 these contaminants does not necessarily indicate that the water poses a health risk.

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 can acquire naturally occurring minerals, in some cases, radioactive material; and substances resulting from the presence of animals or from human activity. Substances

material; and substances resulting from the presence of animals or from human activity. Substances that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, or wildlife;

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;

Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses:

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and may also come from gas stations, urban stormwater runoff, and septic systems;

Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities.

For more information about contaminants and potential health effects, call the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

Special Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA and CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791.

Table Definitions

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

MCL (Maximum Contaminant Level): 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.

MCLG (Maximum Contaminant Level Goal): 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.

NA: Not applicable

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

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

Water Conservation Tips

ater conservation measures are an important first step in protecting our water supply. Such measures not only save the supply of our source water, but can also save you money by reducing your water bill. Here are a few suggestions:

Conservation measures you can use inside your home include:

- Fix leaking faucets, pipes, toilets, etc.
- Replace old fixtures; install water-saving devices in faucets, toilets and appliances.
- Wash only full loads of laundry.
- Do not use the toilet for trash disposal.
- Take shorter showers.
- Do not let the water run while shaving or brushing teeth.
- Soak dishes before washing.
- Run the dishwasher only when full.

You can conserve outdoors as well:

- Water the lawn and garden in the early morning or evening.
- *Use mulch around plants and shrubs.
- Repair leaks in faucets and hoses.
- Use water-saving nozzles.
- Use water from a bucket to wash your car, and save the hose for rinsing.

Information on other ways that you can help conserve water can be found at www.epa.gov/safewater/publicoutreach/index.html.



Community Participation

ou are invited to participate in our public forum and voice your concerns regarding your drinking water. We meet the first Tuesday of each month

beginning at 7 p.m. at the Water District Office, 3707 West Hwy 146, LaGrange, Kentucky 40031.

MTBE in the News

TBE (methyl-t-butyl ether) belongs to a group of chemicals commonly known as fuel oxygenates. Oxygenates are added to gasoline to reduce carbon monoxide and ozone levels in the air caused by auto emissions.

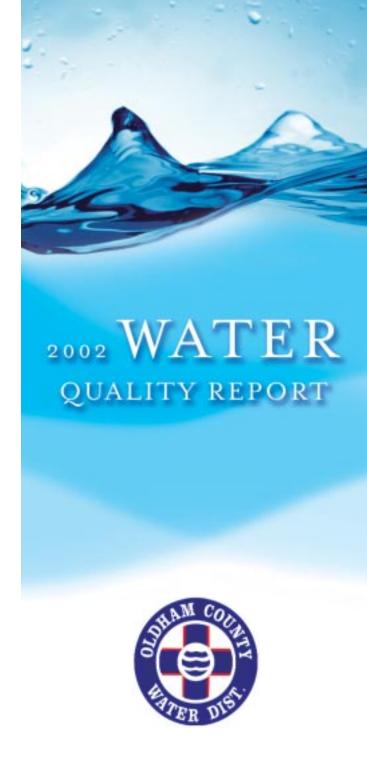
MTBE contamination of drinking water sources may result from leaking fuel storage tanks, pipelines, refueling spills, consumer disposal of 'old" gasoline, emissions from older marine engines, and to a lesser degree, storm water runoff and precipitation mixed with MTBE in the air. Currently, the primary concern about MTBE in drinking water is that it causes taste and odor problems. There are no data showing significant health risks of MTBE at low-exposure levels in drinking water; however, it is a potential human carcinogen at high doses. In December 1997, the U.S. EPA issued a drinking water advisory stating that it is unlikely that MTBE in drinking water at concentrations of 20 to 40 ppb will cause adverse health effects. Continuing research by the EPA and others is expected to help determine more precisely the potential for adverse health effects from MTBE in drinking water.

In an effort to better balance the air-quality benefits and water-quality concerns associated with oxygenates in gasoline, the EPA now requires reducing or eliminating MTBE as a fuel oxygenate. Also, the agency is considering setting health standards for MTBE and is currently gathering information from utilities across the country on the occurrence of MTBE. For a more complete discussion, visit the EPA's MTBE Web site at www.epa.gov/mtbe/faq.htm.

Oldham County Water District aGrange, KY 40031 3707 West Hwy 146







PWS ID#: KY0930333

ent in our water.

ceptable for fecal coliform to be present in water at any concentration. Our tests indicate no fecal coliform is pres-

Fecal coliform are present only in human and animal waste. Because these bacteria can cause illness, it is unacrequire that public water testing positive for coliform bacteria must be further analyzed for fecal coliform bacteria. cates that the water may be contaminated with other organisms that can cause disease. Federal regulations now erally not harmful themselves. The presence of this bacterial form in drinking water is a concern because it indi-Some are harmful to us and some are not. Coliform bacteria are common in the environment and are gen-

They can be found all around us: in our food; on our skin; in our bodies; and, in the air, soil and water. The simple fact is, bacteria and other microorganisms inhabit our world.

Naturally Occurring Bacteria

water quality results. nature of the aquifer that has a medium sensitivity value, the nature of the potential contaminant sources, and medium risk, the aquifer has been determined to have a medium risk. This risk ranking is influenced by the

systems. There are no low-risk sources. Therefore, since the majority of potential contaminant sources possess a The rest of the potential contaminant sources were tanked as medium risks, the majority of which are septic

which cross into Well Head Plan Area 1.

The high risk associated with this aquifer includes twelve above ground storage tanks and tobacco crop areas

protection areas. The majority of potential contaminant sources are classified as medium risk. There are presently 201 potential sources of contamination that have been located within the wellhead

installing additional treatment facilities or locating an alternate source. drinking water supply becomes contaminated, the community is faced with the difficult and costly task of pollution. Preventing pollution is the key to keeping groundwater supplies safe and protecting health. Once a quality and quantity of the public's drinking water supply. The underlying theme is simply to prevent The purpose of managing a wellhead protection area is to minimize the impact of land uses that threaten the

(205) 777-1690. up at our office at 3707 W. Hwy 146, LaGrange, Kentucky 40031. Or contact us by phone at The Water District's Well Head Protection Plan's Phase I and Phase 2 are complete. A copy can be picked

Well Head Protection Plan

Oldham County.)

Additional information can be obtained at www.uky.edu/KGS/water/library/webintro.html. (Just click on

facility provides roughly 1.2 billion gallons of clean drinking water every year. replenished with water infiltration from the Ohio River along with natural trans-evaporation. The treatment constructed in 1981 to draw from this underground water supply. This groundwater supply is constantly being alluvium, which holds several billion gallons of water. The Oldham County Water Treatment Plant was a groundwater source. The Oldham County Water Treatment Plant draws water from the Ohio River Idham County Water District customers are fortunate because we enjoy an abundant water supply from

Where Does My Water Come From?

drinking water standards. improvements necessary to maintain the highest informed are our best allies in supporting water supply because customers who are well providing you with this information about your of their customers annually. We are committed to provide detailed water quality information to each under SDWA which requires water utilities to This publication conforms to the regulations

receive clean water.

EPA uses these data to ensure that consumers they are detected in the drinking water. The U.S. these substances and reports to the U.S. EPA if substances. Each system continually monitors for that water systems must use to remove these drinking water and also specifies various treatments national limits for hundreds of substances in

(U.S. EPA) is responsible for setting the U.S. Environmental Protection Agency Tnder the Safe Drinking Water Act (SDWA),

Working Hard For You

(205) 777-1690. please call Phil Ward, Superintendent, at any questions relating to your drinking water, For more information about this report, or for

needs of all of our water users. community education while continuing to serve the of source water protection, water conservation, and end, we remain vigilant in meeting the challenges delivering the best quality drinking water. To that exemplary. As in the past, we are committed to

drinking water laws remains with all state and federal you that our compliance 2002. We are pleased to tell January through December resting completed from This edition covers all

water quality report. present our annual nce again we proudly

Continuing Our Commitment