

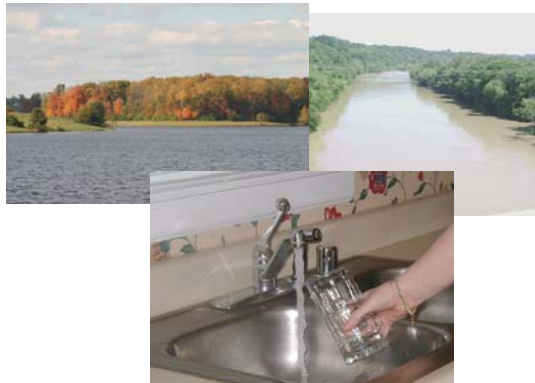


Winchester Municipal Utilities

KY0250473

DRINKING WATER QUALITY REPORT 2010

150 North Main Street
PO Box 4177
Winchester, KY 40392-4177



The Winchester Municipal Utilities (WMU), your drinking water provider, works around the clock to provide exceptional water, wastewater, and solid waste utility services to every consumer. This Drinking Water Quality Report provides you with information regarding your drinking water. For additional information, call WMU at 744-5434.

Este informe contiene informacion importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

Website: www.wmutilities.com

BACKGROUND INFORMATION ABOUT WMU

The Winchester Municipal Utilities (WMU) is pleased to provide its Drinking Water Quality Report for 2010. The report is designed to inform you about the quality of your drinking water and is based on monitoring and test results for the year January 1 through December 31, 2009. Water treatment is a complex and highly regulated activity. WMU strives to continually improve the quality of its drinking water and of the many other utility services provided to you, our customer.

WMU's raw (untreated) water sources are the Kentucky River and the Carroll E. Ecton Reservoir, which are surface water sources. The Kentucky River supplied 98% of the water treated in 2009. The remainder, or 2%, was obtained from the Carroll E. Ecton Reservoir. WMU treated 1,458,903,169 gallons of water during 2009 from these sources.

The water treatment plant has a rated maximum treatment capacity of 6.0 million gallons per day (MGD). WMU operates its water treatment plant 24 hours per day, 365 days per year. The treatment process utilizes conventional flocculation, sedimentation, high-rate filtration, and disinfection.

WMU provides water service to a customer base of 11,768 direct customers and through water sold for resale, to 2,365 customers of the East Clark County Water District and 215 customers of the Kentucky American Water Company. In total, WMU serves 14,348 water customers in Clark County. Growth, along with increasing regulatory requirements demand that WMU address the potable water supply to continue to provide high quality drinking water to you, our customer.

SUMMARY OF 2009 WATER QUALITY

WMU routinely monitors for contaminants in your drinking water according to Federal and State regulations. The following table provides the results of our monitoring averages for the period of January 1 through December 31, 2009. Important notes and explanatory definitions are provided at the end of the table.

DETECTED CONTAMINANTS

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. Unless otherwise noted, the report level is the highest level detected.

	Allowable Levels	Highest Single Measurement	Lowest Monthly %	Violation	Likely Source of Contamination		
Turbidity (NTU)	No more than 1 NTU Less than 0.3 NTU in 95% of monthly samples	0.24	100	No	Soil runoff		
Regulated Contaminant Test Results							
Contaminant [code]	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Inorganic Contaminants							
Fluoride [1025] (ppm)	4	4	1.3	0.93 to 1.3	Mar	No	Water additive which promotes strong teeth
Nitrate [1040] (ppm)	10	10	1.4	1.4 To 1.4	Feb - 09	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium [1045] (ppb)	50	50	3.2	3.2 To 3.2	Mar - 09	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Disinfectants/Disinfection Byproducts and Precursors							
Total Organic Carbon (ppm)	TT*	N/A	1.22 (lowest average)	0.92 to 1.76 (monthly ratios)	N/A	No	Naturally present in environment
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.22 (highest average)	0.20 to 2.10	N/A	No	Water additive used to control microbes.
HAA (ppb) [Haloacetic acids]	60	N/A	33 (highest average)	19 to 45	N/A	No	Byproduct of drinking water disinfection
TTHM (ppb) [total trihalo-methanes]	80	N/A	52 (highest average)	26 to 108	N/A	No	Byproduct of drinking water disinfection.

OTHER TESTS

WMU regularly tests your drinking water for 77 other primary standards, 16 secondary standards, and other standards for which results were found to be within acceptable levels. In order to make this report easier to read and understand, results of those tests are not reported here.

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. WMU 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 and 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>.

VIOLATIONS

During 2009, WMU received one violation. WMU failed to prepare and submit to the Department of Environmental Protection a Certification of the distribution of the report that conforms to the requirements of 401 KAR 8:075 for calendar year 2008.

Specific details regarding the nature of the violation is: CCR was late July 2, 2009. All CCR's are due to the Division of Water by July 1 every year. Missing lead language, new language required by July 1, 2009. Did not send CCR Certification form, only sent CCR Confirmation.

REPORTING REQUIREMENTS

The United States Environmental Protection Agency (EPA) requires that every water system provide consumers with an annual consumer confidence or water quality report as a result of the Safe Drinking Water Act Amendments of 1996. The report is intended to provide consumers with information regarding the quality of their drinking water and to encourage actions by consumers to protect drinking water supplies. WMU is providing you with this report so that you might be better informed about the quality of your drinking water.

IMPORTANT DEFINITIONS

MCL - Maximum Contaminant Level

The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG 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.

MRDL - Maximum Residual Disinfectant Level 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.

MRDLG - Maximum Residual Disinfectant Level Goal

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.

ND or N/A

Not detected; does not apply; not available

NTU - Nephelometric Turbidity Units

A measure of water turbidity. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

pCi/l - Picocuries per Liter

A unit of measure of radioactivity.

ppm - Parts per Million

A unit of measure; equal to milligrams per liter (mg/L).

ppb - Parts per Billion

A unit of measure; equal to micrograms per liter (ug/L).

Primary Standards

Mandatory standards established and enforced by EPA and the Kentucky Division of Water that relate to water quality health effects and for which monitoring is required.

TT - Treatment Technique

A required process intended to reduce the level of a contaminant in drinking water.

AL - Action Level

That concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

CRYPTOSPORIDIUM

WMU has voluntarily tested its source water supplies and its finished (treated) water for the presence of *Cryptosporidium*. Cryptosporidium is a microbial parasite which is found in surface waters throughout the United States and has been found to be present in both the Kentucky River and the Carroll E. Ecton Reservoir. **Cryptosporidium has not been detected in WMU drinking water.** Although conventional treatment can remove cryptosporidium, commonly used sedimentation and filtration methods cannot guarantee 100% removal. Symptoms of Cryptosporidium infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals are able to overcome the infection within a few weeks. However, immunocompromised people have more difficulty and are at greater risk of developing severe, life-threatening illness.

WHY ARE THERE CONTAMINANTS IN DRINKING WATER?

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 at (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 before treatment include:

- *Microbial contaminants*, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock, and wildlife.

- *Inorganic contaminants*, such as salts and metals, which can be naturally-occurring or 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, 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 can also come from gas stations, urban stormwater runoff, and septic systems.

- *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, the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. US FDA regulations establish limits for contaminants in bottled water that shall provide the same protection for public health. EPA has determined that drinking water is safe at these levels.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

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 can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA and the Centers for Disease Control and Prevention (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 at (800) 426-4791.

CONSENT DECREE

The Consent Decree is the settlement agreement between the United States Environmental Agency (EPA), the Kentucky Energy and Environment Cabinet (EEC, formerly known as the Environmental and Public Protection Cabinet), City and WMU detailing actions to be taken by City and WMU for violations of the Clean Water Act, 33 U.S.C. § 1319. The basic tenants of the Consent Decree call for City and WMU to

- Eliminate existing and recurring sanitary sewer overflows (SSOs)
- Reduce the potential for future SSOs

Such is to be achieved through a defined capital program and structured operation and maintenance (O&M) program.

The initial milestone deadline for the first capital project is January 31, 2013. This project is for the elimination of the SSOs at the Snowfall and Stoneybrook sewage pump stations. There are 11 other recurring SSOs in the Lower Howards Creek watershed bringing the total number to 13 SSOs in the Lower Howards Creek watershed. For this watershed project, the decision has been made to address all 13 SSOs in a single project. The project will involve the replacement of 4 miles and construction of 4.5 miles of new sanitary sewer interceptor sewers. This decision was made to accomplish two goals – that of compliance with the Consent Decree and to provide for growth.

The structured O&M programs are developed and implemented as the Capacity, Management, Operation and Maintenance (CMOM) program. WMU has developed 14 required CMOM programs. The following programs are complete and are being implemented as approved by EPA.

- Sewer Overflow Response Plan (SORP)
- Inter Jurisdictional Agreement Program
- Public Education Program
- Spill Impact Water Quality Monitoring Program
- Corrosion Control Program
- Routine Hydraulic Cleaning Program
- Root Control Program
- Capacity Assurance Program (CAP)
- Acquisition Consideration Program
- Infrastructure Rehabilitation Program (IRP)
- Sewer System Assessment Program (CSSAP)
- Sewer System Inventory Program
- Fats, Oils, and Grease Control Program (FOG)
- Financial and Cost Analysis Program

WATER SUPPLY

Potable (drinking) water supply remains a priority issue for WMU. Current regulations require that growth to a water system be restricted when capacity reaches 80% of rated capacity unless capacity upgrades are underway. For WMU that translates to restrictions at 4.8 million gallons per day (MGD).

Previous decisions by the WMU and City Commissions will provide for construction of a new water treatment plant. Construction will be phased with the initial capacity being 6.0 MGD to operate in concert with the existing water treatment plant yielding an effective capacity of 8.0 – 9.0 MGD. The final effective capacity will be determined by the Division of Water (DOW). In addition water transmission improvements are being planned to insure the delivery of the additional capacity. Over time, the existing water treatment plant is planned to be phased out of service and the new water treatment plant expanded to 12.0 MGD. The total estimated cost of the water system improvements is \$58,900,000.

CAPITAL PROJECTS

WMU, in January 2008, placed in service and operation, its new \$23 million wastewater treatment plant (WWTP). The new WWTP has enabled WMU to eliminate the bypass of 250,000,000 gallons of untreated sewage to Strodes Creek each year and meet effluent stream standards for all wastewater treated. WMU continues to implement a number of capital construction projects. The projects are intended to improve service to WMU's customers, to ensure compliance with the Consent Decree, and to provide for increased water supply. Projects under or sheduled for construction include:

Lower Howards Creek Sanitary Sewer Improvements	\$37,000,000
Forest Park Sanitary Sewer Improvements	\$ 1,500,000
Colby Hills Sanitary Sewer Improvements	\$ 650,000
South Main Street Sanitary Sewer Improvements	\$ 750,000
Forest Park Water Line Improvements	\$ 307,000
College/Burns Street Private Sewer Replacement	\$ 416,000
Winchester Plaza Private Sewer Replacement	\$ 249,000
Industrial Park Elevated Storage Tank Rehabilitation	\$ 800,000
Sunset Heights Water System Improvements	\$ 375,000

INFORMATION AND PUBLIC INPUT

If you have questions regarding the information provided in this report or about utility services provided by WMU, please contact WMU (859) 744-5434. We want you to be informed about the drinking water quality and the utility services provided by WMU.

WMU operates as an enterprise fund of the city of Winchester. Regular public meetings of the WMU Commission are held on the first and third Thursdays of each month at 6:00 p.m. at the WMU administrative offices located at 150 North Main Street, Winchester. The regular meeting agenda for each meeting provides an opportunity for public comment regarding WMU services and operations. The WMU Commission is comprised of local community leaders who are WMU customers and who are very interested in your input. You are invited to avail yourself of this opportunity for public input.

DID YOU KNOW?

- WMU is the only water utility in central Kentucky to have two raw water supplies capable of sustaining water system demands for an extended period of time without a significant rainfall event.
- WMU received funding from American Recovery Reinvestment Act (ARRA) for the Industrial Park Elevated Storage Tank Rehab and the Vaught Ct Outfall Sewer. \$800,000 and \$600,000 respectively
- WMU's average day water production is 4.0 million gallons per day (MGD).
- WMU treats an average of 4.5 million gallons per day of wastewater.
- WMU produces and distributes on agricultural land 120 tons of Class A biosolids each week day.
- WMU collects and transports for landfill disposal an average of 59 tons of solid waste each day.
- WMU's residential heavy trash truck makes 33 service calls per day.
- WMU maintains over 155 miles of waterlines, 140 miles of sanitary sewer lines, and 19 pump stations.