

Governing Board



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Constituents Having Secondary MCL's

Unregulated Parameters are monitored in the interest of the customer, and to assist regulators in developing future regulations.

| Parameter | Federal Level Recommended (SMCL) | WaterOne Result (Avg.) | Range (Low - High) |
|------------------------------|----------------------------------|------------------------|------------------------|
| Aluminum* | 200 ppb | 4 ppb | 2.5 ppb - 5.3 ppb |
| Chloride | 250 ppm | 43 ppm | 10 ppm - 100 ppm |
| Copper | 1000 ppb | 2 ppb | ND(1) ppb - 4 ppb |
| Corrosivity** | 0 S.I. | 0.73 S.I. | -0.67 S.I. - 1.55 S.I. |
| Fluoride | 2.0 ppm | 0.68 ppm | 0.22 ppm - 0.68 ppm |
| Odor-Threshold (T.O.N.) | 3 T.O.N. | 1 T.O.N. | 1 T.O.N. - 5 T.O.N. |
| Sulfate | 250 ppm | 148 ppm | 100 ppm - 216 ppm |
| Total Dissolved Solids (TDS) | 500 ppm | 268 ppm | 197 ppm - 412 ppm |
| Zinc | 5000 ppb | 10 ppb | 3 ppb - 60 ppb |

*Aluminum also has a SMCLG of 50 ppb. **Positive Values indicate tendency of water to be non-corrosive.

Non-corrosive water reduces the likelihood of lead or copper leaching into the water from plumbing.

Unregulated Parameters

WaterOne conducted testing according to the EPA guidelines for the following Unregulated Parameters.

| Parameter | Federal Level Recommended | Goal | WaterOne Result (Avg.) | Range |
|---|---------------------------|----------------|------------------------|-----------------------------|
| Alkalinity, Total (as CaCO ₃) | 300 ppm | > 40 ppm | 61 ppm | 45 ppm - 85 ppm |
| Bromodichloromethane | n/a | 0 ppb | 4.1 ppb | 1.6 - 9.1 ppb |
| Carbon, Total Organic (TOC) | 10,000 ppm | n/a | 2.3 ppm | 1.3 ppm - 3.7 ppm |
| Chlorodibromomethane | n/a | 60 ppb | 1 ppb | ND(0.5) - 5.0 ppb |
| Chloroform | n/a | 70 ppb | 12 ppb | 4.0 ppb - 28.7 ppb |
| Conductivity | 1,500 μ hos/cm | n/a | 536 μ hos/cm | 394 - 824 μ hos/cm |
| Dichloroacetic acid* | n/a | zero ppm | 10 ppb | 4.3 - 25 ppb |
| Hardness, Calcium (as CaCO ₃) | 200 ppm | > 60 ppm | 72 ppm | 54 ppm - 93 ppm |
| Hardness, Magnesium (as CaCO ₃) | 150 ppm | 50 ppm | 48 ppm | 17 ppm - 98 ppm |
| Hardness, Total (as CaCO ₃) | 400 ppm | 200 ppm | 123 ppm | 85 ppm - 188 ppm |
| Nickel | 100 ppb | 100 ppb | 1.6 ppb | ND(0.5) - 4.9 ppb |
| pH | 8.5 pH units | > 9.0 pH units | 9.5 pH units | 9.1 pH units - 9.8 pH units |
| Phosphorus, Total | 5 ppm | n/a | 0.08 ppm | ND(0.05) - 0.16 ppm |
| Potassium | 100 ppm | 20 ppm | 7.4 ppm | 5.4 ppm - 10 ppm |
| Silica | 50 ppm | n/a | 10.4 ppm | 3.1 ppm - 13.8 ppm |
| Sodium | 100 ppm | 20 ppm | 74 ppm | 53 ppm - 89 ppm |
| Trichloroacetic acid | n/a | 20 ppb | 1.3 ppb | ND(1.0) - 3.4 ppb |

*The MCLG for Dichloroacetic acid is listed as zero (in ppm) in the Regulatory Statutes.

Unregulated Contaminant Monitoring Rule

Second cycle (UCMR2)

| Parameter | Federal Level Recommended | Goal | WaterOne Result (Avg.) | Range |
|--------------------------------|---------------------------|------|------------------------|---------------------------|
| N-nitroso-dimethylamine (NDMA) | n/a | n/a | 0.006 ppb | ND(0.002) ppb - 0.011 ppb |



Outdoor Watering Tips

Over half the water used during the summer is used outdoors, and most of that is for watering lawns. By watering your lawn wisely, you can conserve a precious resource and save money on your water bill. Following are some tips to help you save water this summer.

Check all valves and hoses for leaks.
Make sure there are no leaks in your hoses and sprinkler valves.

Avoid watering during the heat of the day.
During midday, water is lost to evaporation. Higher winds also distort the sprinkler pattern, resulting in poor coverage.

Water deeply and infrequently.
Deep, infrequent watering promotes deep, strong, drought-tolerant root systems.

Do not overwater. Excess moisture can weaken the plant's root system.

See more outdoor watering tips at waterone.org.

Quality on Tap

2012 Water Quality Report • Published Annually



Water Quality — OUR TOP PRIORITY



Producing safe drinking water is our top priority at WaterOne. WaterOne's water quality consistently meets or exceeds all Federal and State standards for safe drinking water.

Sources of Drinking Water

Our sources of drinking water are rivers 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. At different times of the year, the content of the water varies. We treat it accordingly to produce high quality water that is safe to drink.

The Environmental Protection Agency (EPA) prescribes regulations that limit the amount of

certain contaminants in water provided by public water systems. 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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

To understand the possible health effects described for most customers, consider the following example. A person would have to drink two liters of water every day at the maximum drinking water standard for a lifetime to have a one-in-a-million chance of having the described health effect.

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) or online at www.epa.gov/safewater.

(continued inside)

Special Health Requirements

Some people may be more vulnerable to contaminants found in drinking water than the general population. Immuno-compromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, persons 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.



CODE RED[®]

WaterOne Enhances Public Notification Processes

WaterOne continues to enhance its customer notification processes during potential emergency situations. These new options include automated phone calls, text messaging and emails using CodeRED.

CodeRED gives WaterOne customers an easy and secure method for inputting information and receiving relevant alerts and emergency notices when needed. WaterOne encourages all businesses and individuals to visit waterone.org, and follow the CodeRED link to register to receive water related alerts via phone, email or text.



Mike Orth, KsAWWA Chair, presenting Best Tasting Water Award to Rob Olson, WaterOne Board Chairman

WaterOne Wins First Place in Best Tasting Water Contest

WaterOne was the winner of the Best Tasting Water Contest held in conjunction with the 2011 conference of the Kansas Section, American Water Works Association (KsAWWA). WaterOne will represent KsAWWA at the national Best Tasting Water Contest in June.

WaterOne
Water District No. 1 of Johnson County



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WESTERN UNION

New Payment Option Available

Customers will be able to pay their water bills at more than 60 Western Union payment locations, beginning in May, 2012. Customers will need their account number to complete their transaction. Payments must be made in cash and a \$2.00 convenience fee applies. To find the Western Union payment location nearest to you, visit waterone.org and follow the Western Union link, after May 1st.



WaterOne Earns Gold Award for Exceptional Utility Performance

AMWA President James McDaniel presenting the Gold Award to Mike Armstrong, WaterOne General Manager

WaterOne was one of three utilities nationwide to receive the Gold Award for Exceptional Utility Performance from the Association of Metropolitan Water Agencies (AMWA). The award was presented to WaterOne at AMWA's 2011 annual meeting in Newport, Rhode Island. Each year AMWA honors a small group of public water agencies that exemplify the attributes of effectively managed utilities. Among the

attributes credited to WaterOne were its long-term planning with the completion of a new state-of-the-art treatment facility and laboratory; operational optimization throughout the utility; utilization of innovative energy savings software; community sustainability; high scores on customer satisfaction surveys; implementation of employee development programs; strategic financial planning and high bond ratings.

Water Treatment



In 2011 we treated approximately 2.9 billion gallons of Missouri River water, 8.9 billion gallons of Kansas River water, 10 billion gallons from the Wolcott Collector Well, and 1.6 billion gallons of well water from wells south of the Kansas River.

(continued from front page)

Contaminants 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, 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, urban stormwater runoff, and residential uses.

Customers Give WaterOne High Satisfaction Scores

WaterOne implemented quarterly phone surveys in 2011 to measure the satisfaction levels of its customers in a number of key service areas. The surveys are conducted by the independent research firm, ETC Institute, Olathe.

We are pleased to report that customers gave the utility high satisfaction ratings in each quarterly survey administered, with satisfaction scores ranging from 92% to 96%. High scores were also reported for reliability of service, water quality, customer service contacts, and response to main breaks. To see a full copy of the most recent survey, visit waterone.org and look for it under the News page.

- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts 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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.



Definitions

MCLG—Maximum Contaminant Level Goal

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.

MCL—Maximum Contaminant Level

The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MLS—Milliliters

MRDL—Maximum Residual Disinfectant Level

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

Level Goal: The level of 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.

SMCL—Secondary Maximum Contaminant Level

Contaminant Level: Secondary MCLs for various water quality indicators are established to protect public welfare.

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

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

ND—Not Detected

NTU—Nephelometric Turbidity Units: A measure of the clarity of water.

pCi/L—Picocuries per liter: A measure of radioactivity.

ppm—Parts per million, or milligrams per liter.

ppb—Parts per billion, or micrograms per liter.

pH units—A unit of measurement: A measure of acidity or basicity of the water.

µmhos/cm—(Or micromhos/cm): A measure of the ability of a solution to carry an electric current.

Summary Of Water Quality

The USEPA requires monitoring of over 100 drinking water contaminants. Listed below are the only contaminants detected in your drinking water. None of the contaminants detected exceed state or federal standards. The summary shows monitoring results for January 1 to December 31, 2011.

| Parameter | MCL | MCLG | WaterOne Result | WaterOne Range | Sample Date | Met Standard | Source |
|---------------------------------------|---|-----------------|------------------------|---|-------------|--------------|---|
| Inorganic Contaminants | | | | | | | |
| Antimony | 6 ppb | 6 ppb | 0.7 ppb | ND(0.5) - 0.7 ppb | Quarterly | ✓ | Discharge from petroleum refineries; Fire retardants; Ceramics; Electronics; Solder |
| Arsenic | 10 ppb | 0 ppb | 2.1 ppb | ND(1.0) - 2.1 ppb | Quarterly | ✓ | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |
| Barium | 2 ppm | 2 ppm | 0.06 ppm | 0.02 ppm- 0.06 ppm | Quarterly | ✓ | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Chloramines | MRDL = 4 ppm | MRDLG = 4 ppm | 3.0 ppm ¹ | 1.4 ppm - 4.3 ppm ¹ | Daily | ✓ | Water additive used to control microbes. |
| Chlorine Dioxide | MRDL = 800 ppb | MRDLG = 800 ppb | 224 ppb | ND(50) ppb - 224 ppb | Monthly | ✓ | Water additive used to control microbes. |
| Chlorite | 1 ppm | 0.8 ppm | 0.2 ppm | ND(0.025) ppm - 0.8 ppm | Monthly | ✓ | By-product of drinking water disinfection |
| Chromium | 100 ppb | 100 ppb | 3.7 ppb | ND(1) ppb - 3.7 ppb | Quarterly | ✓ | Discharge from steel and pulp mills; Erosion of natural deposits |
| Copper | AL = 1.3 ppm | 1.3 ppm | 0.017 ppm ² | 0 samples exceeding | Annually | ✓ | Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives |
| Fluoride | 4 ppm | 4 ppm | 0.68 ppm | 0.22 ppm - 0.68 ppm | Monthly | ✓ | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Lead | AL = 15 ppb | 0 ppb | 5.8 ppb ² | 0 samples exceeding | Annually | ✓ | Corrosion of household plumbing systems; Erosion of natural deposits |
| Nitrate | 10 ppm | 10 ppm | 1.9 ppm | ND(0.1) ppm - 1.9 ppm | Quarterly | ✓ | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Selenium | 50 ppb | 50 ppb | 3.2 ppb | ND(0.5) - 3.2 ppb | Quarterly | ✓ | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines |
| Synthetic Organic Contaminants | | | | | | | |
| Atrazine | 3 ppb | 3 ppb | 0.2 | ND(0.2) ppb - 1.1 ppb | Monthly | ✓ | Runoff from herbicide used on row crops |
| Volatile Organic Contaminants | | | | | | | |
| Haloacetic Acids (HAA) | 60 ppb | n/a | 22 ppb | 4.6 ppb - 31 ppb | Monthly | ✓ | By-product of drinking water disinfection |
| Total Trihalomethanes (THMs) | 80 ppb | n/a | 24 ppb | 7.4 ppb - 36 ppb | Monthly | ✓ | By-product of drinking water disinfection |
| Microbiological Contaminants | | | | | | | |
| Total Coliforms | presence of Coliform bacteria in \geq 5% of monthly samples | 0 (< 1/100 mls) | 0.9% | 0 - 0.9% positive samples per month | Daily | ✓ | Naturally present in the environment |
| Total Organic Carbon | removal ratio ³ (25% required) | TT | 49% | 32% - 60% removed | Monthly | ✓ | Naturally present in the environment |
| Turbidity | TT NTU | TT NTU | 0.4 NTU ⁴ | 99.96% lowest monthly % meeting 0.3 NTU | Daily | ✓ | Soil runoff |
| Radiological Contaminants | | | | | | | |
| Beta Particle & Photon Radioactivity | 50 pCi/L | 0 pCi/L | 8.0 pCi/L ⁵ | 3.8 pCi/L - 8.6 pCi/L | Annually | ✓ | Decay of natural and man-made deposits |
| Gross Alpha Particles | 15 pCi/L | 0 pCi/L | 1.4 pCi/L | ND(0.2) pCi/L - 0.9 pCi/L | Annually | ✓ | Erosion of natural deposits |
| Radium-226 | 5 pCi/L | 0 pCi/L | 0.3 pCi/L | ND(0.1) pCi/L - 0.3 pCi/L | Annually | ✓ | Erosion of natural deposits |
| Radium-228 | 5 pCi/L | 0 pCi/L | 1 pCi/L | ND(0.6) pCi/L - 1.1 pCi/L | Annually | ✓ | Erosion of natural deposits |
| Uranium | 30 ppb | 0 ppb | 3.0 ppb | ND(0.7) ppb - 3.0 ppb | Annually | ✓ | Erosion of natural deposits |

1. WaterOne is required to maintain a minimum residual of 1.0 ppm throughout our distribution system by the Kansas Dept. of Health & Environment as a means to provide some measure of protection against microbiological contamination. Maximum residual compliance is based on monthly averages. WaterOne's highest value, 4.3 ppm, was an instantaneous reading.

2. Data from 2011 when we conducted sampling according to the required "reduced monitoring schedule". This value is the 90th percentile result. The 95th percentile value for lead is 6.8 ppb & the 95th percentile value for copper is 0.019 ppm.

3. The monthly TOC removal ratio is calculated as the ratio between the actual TOC removal and the TOC rule removal requirements.

4. This is the highest turbidity measurement for 2011. Compliance is based on 95% of monthly samples being less than 0.3 NTU. The average turbidity was less than 0.10 NTU. Turbidity is measured as an indicator of the effectiveness of the water treatment process. The lower the turbidity, the more effective the treatment process.

5. EPA considers 50 pCi/L to be the level of concern for beta particles.