

2018 WATER QUALITY REPORT FOR OSCEOLA WATER WORKS

This report contains important information regarding the water quality in our water system. The source of our water is surface water. Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation	Source
		Type	Value & (Range)			
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	LRAA	33.00 (22 - 44)	4/5/18	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	LRAA	34.00 (24 - 59)	4/5/18	No	By-products of drinking water disinfection
Lead (ppb)	AL=15 (0)	90th	.004 (ND - .011)	2018	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90th	0.38 (0.02 - 0.42)	2018	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
950 - DISTRIBUTION SYSTEM						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	3.2 (2.5 - 3.6)	03/31/2018	No	Water additive used to control microbes
01 - S/EP FROM WEST LAKE						
Fluoride (ppm)	4 (4)	SGL	0.6 (.48 - .90)	10/15/2018	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Barium (ppm)	2 (2)	SGL	0.06	07/08/2014	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	28	07/10/2018	No	Erosion of natural deposits; Added to water during treatment process
Atrazine (ppb)	3 (3)	SGL	0.70	02/05/2018	No	Runoff from herbicide used on row crops
Total Organic Carbon TOC ppm	NA	TT	1.3 (.95 - 2.34)	5/30/18	No	Naturally present in the environment
Turbidity (NTU)	N/A (N/A)	TT	2.03	3/2/18	Yes	Soil runoff

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

DEFINITIONS

- 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.
- ppb -- parts per billion.
- ppm -- parts per million.
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- RAA – Running Annual Average
- Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

- Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- 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.
- 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.
- SGL – Single Sample Result
- RTCR – Revised Total Coliform Rule
- NTU – Nephelometric Turbidity Units

GENERAL INFORMATION

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

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).

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. OSCEOLA WATER WORKS 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>.

OTHER VIOLATIONS

PUBLIC NOTIFICATION

REPORTING VIOLATION OF THE MAXIMUM RESIDUAL DISINFECTANT LEVEL

The Osceola Water Works is required by state and federal regulations to submit a monthly report summarizing the disinfectant levels found in the drinking water. This monthly summary is required to be submitted to the Iowa Department of Natural Resources to report whether or not the Maximum Residual Disinfectant Level of 4.0 mg/L of total chlorine in the drinking water was exceeded during the previous 12 months. Chlorine is beneficial at low levels to control microbes, such as Coliform bacteria, but may have adverse health risks at excessive levels.

Every year in the fall Osceola Water Works switches to free chlorine. This switch is done in conjunction with the Water Works annual flushing program. A free chlorine conversion is a process by which a water system periodically switches its disinfection process from chloramines (a combination of chlorine and ammonia) to free chlorine in order to improve the long term quality of its drinking water. During this change Osceola Water Works recorded free chlorine only. Osceola Water Works is required to record both free and total chlorine. The Osceola Water Works regrets its failure to report the Maximum Residual Disinfectant Level in December 2018 and will work to make sure that the required information is submitted in the future.

Customers with questions or concerns about the Maximum Residual Disinfectant Levels, or any other water problem, should contact Water Superintendent Brandon Patterson at 641-342-1435.

In March 2018 we had a Treatment Techniques (Other) violation for Surface Water Treatment Rule (SWTR).

In December 2018 we failed to monitor for Iowa Administrative Code. Adverse health effects, if any, are not known. Monitoring procedures have been corrected to avoid future violations.

All staff has been properly trained regarding sampling requirements. Currently Osceola Water Works is in compliance with all regulations.

SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains water from one or more surface waters. Surface water sources are susceptible to sources of contamination within the drainage basin.

Surface Water Name	Susceptibility
West Lake	high

OTHER INFORMATION

Turbidity is an indicator of treatment filter performance and is regulated as a treatment technique.

CONTACT INFORMATION

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact OSCEOLA WATER WORKS at 641-342-1435. Decisions are made at the water board meetings held on the 1st Thursday of each month at 5:30 p.m. The meetings are at the Osceola Water Works office located at 208 West Jefferson Street in Osceola and the public is encouraged to attend. This information is being mailed to each customer. You can also receive a copy of this information at the Water Works office, online at www.osceolawaterworks.com, or online at www.iowaccr.org.

