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The 2014 Water Quality Report summarizes the City of St. Cloud's drinking water monitoring results during the 2014 calendar year. The purpose of this report is to advance consumers' understanding of drinking water and heighten awareness of the need to protect water resources.

Water Source

The City of St. Cloud uses the Mississippi River as the source for drinking water. The drinking water provided to our customers continues to meet or exceed drinking water quality expectations set by The Minnesota Department of Health (MDH). MDH has determined that our source water is potentially susceptible to contamination. In response, the City of St. Cloud developed a Source Water Protection Plan to help prevent contamination of the Mississippi River. To obtain the source water assessment, please call 651-201-4700 or 1-800-818-9318 (press 5) during regular business hours. The source water assessment can be viewed online at www.health.state.mn.us/divs/eh/water/swp/swa.

Please contact the Minnesota Department of Health or the Public Utilities Department if you have any questions regarding drinking water or if you would like information about opportunities for public participation in decisions that may affect the quality of the water.

Laboratory Analysis Results

No contaminants were detected at levels that violated federal drinking water standards in 2014. However, some contaminants were detected in trace amounts that were below regulatory or legal limits. The table that follows shows the contaminants that were detected in trace amounts in 2014.

To ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (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. 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

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 can pick up substances resulting from the presence of animals or from human activity. Substances that may be present in source water (prior to treatment) include:

- **Microbial contaminants**, such as viruses and bacteria, which may come from septic systems, agricultural livestock operations, wildlife and/or wastewater treatment facilities.
- **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.
- **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.

Information for Residents with Special Health Needs

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.

Substance	Highest Level Allowed	Level Found		Typical Source of Substance
		Reported Result	Range	
Nitrate as nitrogen (parts per million)	10.4 MCL Goal 10.4	0.4	NA	Runoff from fertilizer use, leaching from septic tanks/sewage; erosion of natural deposits.
Fluoride (parts per million)	4.0 MCL Goal 4.0	1.15	1.00 - 1.20	Added to promote strong teeth as required by the State; erosion of natural deposits; discharge from fertilizer & aluminum factories.
Chlorine (parts per million)	4.0 MRDL Goal 4.0	1.8 / 2.5 Lowest/Highest Monthly Avg.	2.29 Highest Quarterly Avg.	Water additive used to control microbes.
Turbidity* (NTU)	TT	Percent in High Quality Range	Highest Single Measure	Soil runoff.
		100%	0.11	
* Turbidity is a measure of the clarity of the water and is a good indicator of the effectiveness of the filtration system.				
TTHM** (parts per billion)	80.0	28.55	10.5 - 27.6	By-product of drinking water disinfection.
**Total Trihalomethanes are formed when free chlorine (used for disinfection) combines with specific naturally-occurring substances.				
Haloacetic Acids (parts per billion)	60.0	22.75	11.7 - 31.1	By-product of drinking water disinfection.
		Removal Required	Removal Achieved	# of Quarters out of Compliance
Total Organic Carbon (% Removed)	25 - 30	46.8 - 62.7	0	Naturally present in the environment.
		Action Level (AL)	90% Level	# of Samples Above Action Level
Lead*** (parts per billion)	15.0	1.9	0 out of 30	Corrosion of household plumbing systems; erosion of natural deposits.
Copper (parts per million)	1.3	0.05	0 out of 30	Corrosion of household plumbing systems; erosion of natural deposits.
***If present in elevated levels, lead can cause serious health problems especially for pregnant women and children. Lead in drinking water is primarily caused from materials and components associated with service lines and home plumbing. The City of St. Cloud is responsible for providing high quality drinking water, but does not 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 the tap for two minutes before using for drinking or cooking. You can have your water tested for lead by contacting the Safe Drinking Water Hotline 800-426-4791 or http://www.epa.gov/safewater/lead .				

DEFINITIONS:

MCLG – Maximum Contaminant Level Goal - concentrations less than this have no known or expected risk to health.

MCL – Maximum Contaminant Level - the highest level of a contaminant that is allowed in drinking water.

TT – Treatment Technique - a required treatment process to reduce the contaminant level.

MRDL – Maximum Residual Disinfectant Level.

MRDLG – Maximum Residual Disinfectant Level Goal.

AL – Action Level - the concentration that triggers treatment or other requirement.

NA – Not Applicable.

90th Percentile Level – Value obtained by disregarding 10% of the highest samples taken.