

Water Quality Report - 2015

In accordance with federal and state laws, Shoreview's drinking water is monitored regularly for contaminants. This report contains the results of monitoring done on its drinking water for the period from January 1 to December 31, 2015. The purpose of this report is to advance consumers' understanding of drinking water and heighten awareness of the need to protect precious water resources. As shown, no contaminants were detected at levels that violated drinking water standards. Some contaminants were detected in trace amounts, but well below the legal limits. The Consumer Confidence Report Data tables show the sampling results for these trace-level contaminants.

Report Data

Results of Monitoring

No contaminants were detected at levels that violated federal drinking water standards. However, some contaminants were detected in trace amounts that were below legal limits. The table that follows shows the contaminants that were detected in trace amounts last year. (Some contaminants are sampled less frequently than once a year; as a result, not all contaminants were sampled for in 2015. If any of these contaminants were detected the last time they were sampled for, they are included in the table along with the date that the detection occurred.

Contaminants found at levels below MCL in tests conducted by MDH

Contaminant (units)	Meet Standard?	MCLG	MCL	Level found		Typical Source of Contamination
				Range (2015)	Average/ Result*	
Flouride (ppm)	Yes	4	4	.7- .99	.92	State of Minnesota requires all municipal water systems to add fluoride to the drinking water to promote strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories.
Alpha Emitters (pCi/l)	Yes	0	15.4	Nd - 3.1	3.1	Erosion of Natural Deposits
Barium (ppm)	Yes	2	2	N/A	.07	Discharge of drilling wastes; Discharge from metal refineries; Erosion of Natural Deposits.
Combined Radium (pCi/l)	Yes	0	5.4	Nd - 1.1	1.1	Erosion of Natural Deposits
Total Coliform Bacteria	Yes	0 present	>5% present	N/A	3%◆	Naturally present in the environment

* This is the value used to determine compliance with federal standards. It is sometimes the highest value detected and sometimes an average of all detected values. If it is an average, it may contain sampling results from the previous year.

◆ Follow-up sampling showed no contamination present.

Samples taken from Shoreview homes and tested by an independent lab.

Contaminant (units)	Meet Standard?	MCLG	AL	90% Level	Number of Sites Over AL	Typical Source of Contamination
Copper (ppm)	Yes	1.3	1.3	0.31	0 of 30	Corrosion of household plumbing; Erosion of natural deposits

Lead (ppb)	Yes	0	15	3.1	0 of 30	Corrosion of household plumbing: Erosion of natural deposits
<p>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. The City of Shoreview 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 with 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 at 1-800-426-4791 or www.epa.gov/safewater/lead.</p>						
Controlled Disinfectant Additive						
Contaminant (units)	MRDLG	MRDL	Highest and Lowest Monthly Average	Highest Quarterly Average	Typical Source of Contamination	
Chlorine (ppm)	4	4	.1 – 1.3	0.58	Water additive used to control microbes.	

Monitoring may have been done for additional contaminants that do not have MCLs established for them and are not required to be monitored under the Safe Drinking Water Act. Results may be available by calling 651-201-4700 or 1-800-818-9318 during normal business hours.

KEY TO ABBREVIATIONS

- ppm:** Parts per Million, for example, 1 gallon is one part per million in 1 million gallons and one tablespoon is 1 part per million tablespoons. This can also be expressed as milligrams per liter. (mg/l)
- ppb:** Parts per billion which can also be expressed as micrograms per liter. (ug/l)
- N/A:** Not Applicable
- MRDLG:** (Maximum Residual Disinfectant Level Goal)
- MRDL:** (Maximum Residual Disinfectant Level)
- 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.
- 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.
- Nd:** No Detection
- pCi/l** PicoCuries per liter (a measure of radioactivity)
- AL:** (Action Level) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- 90% Level:** This is the value obtained after disregarding 10% of samples taken that had the highest levels. (For example, if 10 samples are taken 90% level is determined by disregarding the highest-level sample and averaging the nine others. When only five samples have been taken, the average of the two highest-levels is taken to determine the 90th percentile level.

Shoreview Has Excellent Drinking Water

No contaminants were detected at levels that violated federal drinking water standards. Nonetheless, it is important to understand that all sources of drinking water are subject to potential contamination by constituents that are naturally occurring or man-made. Those contaminants can be microbes, organic chemicals, inorganic chemicals or radioactive materials. All drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. Small amounts of contaminants do not necessarily pose

a health risk. For more information about contaminants and potential effects, contact the U.S. EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons can be particularly at risk from infections. These include people with cancer who are undergoing chemotherapy, people who have received transplanted organs, people with HIV/AIDS or other immune system disorders, some elderly and infants. These people or their guardians should seek advice about drinking water from their healthcare providers. EPA/Center for Disease Control 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 1-800-426-4791.

Water Quality Report and Emergency Contact Information

If you have any questions about the Water Quality Report, or questions concerning your drinking water supply, please contact Shoreview's Public Works Director, Mark Maloney at 651-490-4650.

If you have a water emergency after business hours, please contact the Ramsey County Sheriff's Office at 651-291-1111.

Compliance with National Primary Drinking Water Regulations

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 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. 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 storm-water runoff, industrial or domestic wastewater discharges, oil and gas production and mining or farming.

Pesticides and herbicides; may come from a variety of sources such as agriculture, urban storm-water 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 storm-water runoff and septic systems.

Radioactive contaminants; can be naturally occurring or the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (EPA) prescribes regulations that 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 provide the same protection for public health.

Shoreview's Water Source

The City of Shoreview provides drinking water to its residents from a groundwater source. Six wells ranging from 395 to 442 feet deep draw water from the Prairie Du Chien-Jordan, Quaternary Buried Artesian, and Jordan-St. Lawrence aquifers.

The water provided to customers may meet drinking water standards, but Minnesota Department of Health has also made a determination as to how vulnerable the source of water may be to future contamination incidents. If you wish to obtain the entire source water assessment regarding your drinking water, please call 651-201-4700 or 1-800-818-9318 (and press 5) during normal business hours. Also, you can view it online at www.health.state.mn.us/divs/eh/water/swp/swa.

Understanding the need for Wellhead Protection:

Shoreview recently completed a wellhead protection plan that addresses the six municipal water supply wells and the associated source water aquifers. Wellhead protection awareness may help prevent contaminants from entering drinking water supply wells. Wellhead protection is necessary for the City to maintain or improve the current level of water quality so that the municipal water supply will continue to meet or exceed all applicable state and federal water quality standards.

The City will provide and promote activities to protect the source water aquifers that provide water to the municipal water supply system. Shoreview will provide resources to increase public awareness of the Wellhead and Source Water Protection Program and groundwater-related issues within the drinking water supply management area.

To access the City's completed Wellhead Protection Plan contact the City of Shoreview's public works department at 651-490-4650.

Additional Wellhead Protection information and resources can be found at:

Q&A: General Goals and Requirements of Wellhead Protection

<http://www.health.state.mn.us/divs/eh/water/factsheet/whp/qawhp.pdf>

The Benefits of having a local Wellhead Protection Team

<http://www.health.state.mn.us/divs/eh/water/factsheet/whp/whpbenefits.pdf>

Role of Wellhead Protection Manager

<http://www.health.state.mn.us/divs/eh/water/factsheet/whp/whprole.pdf>

New Well Requirements

<http://www.health.state.mn.us/divs/eh/water/factsheet/whp/newwellreq.pdf>

Wellhead Protection Area Delineation

<http://www.health.state.mn.us/divs/eh/water/factsheet/whp/delineation.pdf>

Funding Wellhead Protection Plan Development

<http://www.health.state.mn.us/divs/eh/water/factsheet/whp/whpfunding.pdf>

Be a Watershed Hero! Stop water where it drops!

<http://www.rwmwd.org/vertical/Sites/%7BAB493DE7-F6CB-4A58-AFE0-56D80D38CD24%7D/uploads/%7BE0144B3D-0C98-4E6C-8A5C-447143ECA564%7D.PDF>

Well Management. Sealing Unused Wells

<http://www.health.state.mn.us/divs/eh/wells/sealing/abandwel.html>

State or Federal Programs Offering Grants and Low Interest Loans for Well Construction, Repair, and Sealing

<http://www.health.state.mn.us/divs/eh/wells/sealing/loans.html>