

Water Quality Report 2018



NORTH AURORA, IL 0890600

Annual Water Quality Report
for the period of January 1 to
December 31, 2017

This report is intended to provide you with important information about your drinking water and the efforts made by the NORTH AURORA water system to provide safe drinking water. The drinking water source for NORTH AURORA is deep well ground water (Iron-ton-Galesville sandstone aquifer) which is currently derived from five wells (#3, #4, #5, #6, #7) which are located on both the east and west sides of town.

For more information regarding this report contact:

Paul Young
(630) 897-2662 ext. 229

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

IMPORTANT HEALTH INFORMATION

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. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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).

SOURCE OF DRINKING WATER

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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.



Source Water Assessment

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings at Village Hall, 25 East State St. (1st and 3rd Mondays

of each month at 7:00 pm) The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by Village Hall or call our water operator at (630) 897-2662. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

To determine North Aurora's susceptibility to groundwater contamination, the following document was reviewed: a Well Site Survey, published in 1991 by the Illinois EPA. Based on the information obtained in this document, there are thirty potential sources of groundwater contamination that could pose a hazard to groundwater utilized by North Aurora's Community Water Supply. These include, a recreational facility, a fire station, two restaurant/food services, five store/sales, two hospital/clinics, one auto body facility, three below ground fuel storage tanks, four offices, two church/libraries, an auto repair facility, a vehicle sales, a printing facility, a school, a golf course, a vehicle parking, one construction/demolition company, one equipment/vehicle washing facility, and a dry cleaners. In addition, information provided by the Leaking Underground Storage Tank and Remedial Project Management Sections of the Illinois EPA indicated sites with on-going remediation that might be of concern. The susceptibility determination for this community water supply is based on a number of criteria including monitoring conducted at the wells, monitoring conducted at the entry point to the distribution system, and available hydrogeologic data on the wells. **The Illinois EPA has determined that the North Aurora Community Water Supply's source water is not susceptible to contamination.** The land use within the wellhead protection area and the immediate vicinity of the wells was analyzed as part of this susceptibility determination. This land use includes residential, commercial, and agricultural properties, and open space.

Questions?

For more information about this report or questions relating to your drinking water, please call Paul Young 630-897-2662 ext. 229. Visit us on the web at: www.northaurora.org

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, mining, or farming.

Pesticides and herbicides, which 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, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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 at (800) 426-4791.

2017 Regulated Contaminants Detected

Lead and Copper

Definitions:

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

—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. We are responsible for providing high quality drinking water, but we 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 second 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 Hot line or at <http://www.epa.gov/safewater/lead>—

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Lead and Copper	Date Sampled	MCL	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2017	1.3	1.3	0.15	1	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2017	0	15	3.8	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definitions:

- Avg: The following tables contain scientific terms and measures, some of which may require explanation. Regulatory compliance with some MCLs are based on running annual average of monthly samples.
- Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
- Maximum Contaminant Level or 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 or 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.
- Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant necessary for control of microbial contaminants.
- Maximum residual disinfectant level goal or 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.
- na: not applicable.
- mrem: millirems per year (a measure of radiation absorbed by the body)
- ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
- ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
- Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

Regulated Contaminants								
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	12/31/2017	0.1	0.1 - 0.2	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	03/01/2016	0.0835	0.0835 - 0.0835	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	03/01/2016	1.04	1.04 - 1.04	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Iron	03/01/2016	0.104	0.104 - 0.104		1.0	ppm	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Sodium	03/01/2016	27.3	27.3 - 27.3			ppm	N	Erosion from naturally occurring deposits. Used in water softener regeneration.

Water Hardness = 16 Grains Per Gallon/274 Mg/L

Triennial monitoring: The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some data, although accurate, is more than one year old.

Due to frequency changes in our Radioactive Contaminant monitoring the highest level detected reported is an average of all treatment facility samples.



Water Division
North Aurora, Illinois 60542

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LEAD UPDATE

While the Village remains in compliance with the Environmental Protection Agency's Action Level for Lead and Copper, we continue to follow recommendations and new laws created for the purpose of reducing lead exposure to village residents.

The Village of North Aurora is required to inform residents when a lead water service line has been positively identified in their home during a repair, inspection or water meter replacement. We are also required to give notice of upcoming work in a neighborhood where lead services might exist. In addition, the Village filed the first annual "Lead Inventory Report" as recently required by the Illinois Environmental Protection Agency (IEPA) for all Illinois community water supplies. This inventory will assist the IEPA in determining how many lead services remain in use and will help communities that are working toward establishing lead abatement.

In 2017, the Village was required to collect its triennial Lead and Copper samples. The Village is not in violation, per this report, as our "90th percentile" is well under the allowable 15 parts per billion. With that said, no amount of lead is deemed safe for human consumption. Please read the TIPS below to learn how to further reduce the possibility of exposure from water that contains lead.

You can learn more about lead in drinking water by visiting the IEPA web site: <http://www.epa.illinois.gov/index>

TIPS:

- Flush your faucet until water is cold before drinking. Usually thirty seconds to a minute does the trick. This removes all the water that has been sitting in the plumbing possibly absorbing lead.
- Only drink and cook with water from the "cold" faucet as hot water absorbs lead from plumbing more than cold water.
- Boiling water will NOT remove lead from it.
- Bathing in water containing lead is considered safe since lead is not absorbed through the skin.

Questions or concerns? Please contact Paul Young in the Water Division @ 630 897-2662 X 229 or pyoung@northaurora.org

CONSERVE



You can play a role in conserving water and saving yourself money in the process by becoming conscious of the amount of water your household is using and by looking for ways to use less whenever you can. It is not hard to conserve water. Here are a few tips:

- ✓ Turn off the tap when brushing your teeth.
- ✓ Check every faucet in your home for leaks. Just a slow drip can waste 15-20 gallons per year.
- ✓ Check your toilets for leaks by putting a few drops of food coloring in the tank. Watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from an invisible toilet leak. Fix it and you save more than 30,000 gallons a year.
- ✓ Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- ✓ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.