



VILLAGE OF RIVER FOREST 2021 ANNUAL DRINKING WATER QUALITY REPORT

The Village of River Forest is pleased to present our Annual Drinking Water Quality Report for the period of January 1 to December 31, 2020. This report summarizes the quality of water that River Forest provided in 2020, including details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This year, as in past years, your tap water met all Environmental Protection Agency (EPA) and State of Illinois drinking water health standards. If you have any questions about this report or concerning the quality of drinking water in River Forest, please contact Mark Janopoulos, Supt. of Operations, (708) 366-8500.

The Village wants all of our water consumers to be informed about the quality of our water. If you would like to learn more, please feel welcome to attend any of the regularly scheduled Village Board meetings. Visit the Village's website (www.vrf.us) for the date, time, and location of each meeting.

What can we reasonably expect in our water?

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 materials and can pick up substances resulting from the presence of animals or from human activity.

Were there any violations in 2020?

There were no drinking water quality violations recorded in the Village of River Forest in 2020.

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 & 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 (1-800-426-4791).

In order to ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Federal Drug Administration (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/Center for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the EPA's Safe Drinking Water Hotline (1-800-426-4791).

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. The Village of River Forest 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>.

Where does our water come from?

The source of drinking water used by River Forest is purchased surface water from the City of Chicago. The City of Chicago utilizes Lake Michigan as its source water via two water treatment plants. The Jardine Water Purification Plant serves the northern areas of the City and suburbs, while the South Water Purification Plant serves the southern areas of the City and suburbs. Lake Michigan is the only Great Lake that is entirely contained within the United States. It borders Illinois, Indiana, Michigan, and Wisconsin, and is the second largest Great Lake by volume with 1,180 cubic miles of water and third largest by area.

Source Water Assessment Summary

The Illinois EPA implemented a Source Water Assessment Program (SWAP) to assist with watershed protection of public drinking water supplies. The SWAP inventories potential sources of contamination and determined the susceptibility of the source water to contamination. The Illinois EPA has completed the Source Water Assessment Program for our supply.

Susceptibility to Contamination

The Illinois EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems. The very nature of surface water allows contaminants to migrate into the intake with no protection only dilution. This is the reason for mandatory treatment of all surface water supplies in Illinois. Chicago's offshore intakes are located at a distance that shoreline impacts are not usually considered a factor on water quality. At certain times of the year, however, the potential for contamination exists due to wet-weather flows and river reversals. In addition, the placement of the crib structures may serve to attract waterfowl, gulls and terns that frequent the Great Lakes area, thereby concentrating fecal deposits at the intake and thus compromising the source water quality. Conversely, the shore intakes are highly susceptible to storm water runoff, marinas and shoreline point sources due to the influx of groundwater to the lake.

Further information on our community water supply's Source Water Assessment Program is available by calling DWM at 312-742-2406 or by going online at <http://dataservices.epa.illinois.gov/swap/factsheet.aspx>

THE FOURTH UNREGULATED CONTAMINANT MONITORING RULE (UCMR 4)

In compliance with UCMR 4, samples were collected at Chicago Water System's entry points to the distribution system (EPTDS), also known as finished water, and analyzed for all contaminant groups except for Haloacetic Acids (HAAs), which were sampled from the distribution system. All the contaminant groups tested in finished water were below the minimum reporting levels specified in the test method under UCMR 4. Samples for HAA indicators (Total Organic Carbon and Bromide) were collected at two source water influent points for the system. For Bromide, test results ranged from 28.2 to 35.3 ppb, and for TOC, test results ranged from 1.79 to 1.80 ppm.

ILLINOIS EPA'S SAMPLING OF PER- and POLYFLUOROALKYL SUBSTANCES (PFAS)

The Illinois EPA collected finished water samples from Chicago's Water System on 10/29/2020 and analyzed the samples for a total of 18 PFAS contaminants. In its notification to Chicago, the Illinois EPA stated that these contaminants were not present in Chicago's drinking water at concentrations greater than or equal to the minimum reporting levels.

2020 VOLUNTARY MONITORING

The City of Chicago monitors for Cryptosporidium, Giardia and E. coli in its source water as part of its water quality program. Cryptosporidium has not been detected in these samples, but Giardia was detected in September 2010 in one raw lake water sample collected. Treatment processes have been optimized to provide effective removal of Cryptosporidium and Giardia from the source water. By maintaining low turbidity through the removal of particles

from the water, the possibility of such organisms getting into the drinking water system is greatly reduced. In 2020, the City of Chicago has also continued monitoring for hexavalent chromium, also known as chromium-6. USEPA has not yet established a standard for chromium-6, a contaminant of concern, which has both natural and industrial sources. Chromium-6 sampling data are posted at:

https://www.chicago.gov/city/en/depts/water/supp_info/water_quality_resultsandreports.html

For more information,
please contact
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Definition of Terms

Avg: 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 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.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG's as feasible using the best available treatment technology.

Highest Level Detected: Represents the highest single sample reading of a contaminant of all the samples collected in 2011.

Range of Detections: This column represents a range of individual sample results, from lowest to highest that were collected during the Consumer Confidence Report calendar year.

Date of Sample: If a date appears in this column, the IEPA requires monitoring for this contaminant less than once per year because the concentrations do not frequently change. If no date appears in this column, monitoring for this contaminant was conducted during the Consumer Confidence Report calendar year.

Action Level (AL): The concentration of a contaminant that triggers treatment or other required actions by the water supply.

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

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

n/a: Not applicable

(Continued)

nd: Not detectable at testing limits

% pos/mo: percent positive samples per month

mg/l: milligrams per litre or ppm—or one ounce in 7,350 gallons of water

ug/l: micrograms per litre or ppb—or one ounce in 7,350,000 gallons of water

Avg: Regulatory compliance with some MCLs are based on running annual average or monthly samples

Maximum Residual Disinfectant Level (MRDL): The highest level of a drinking water disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected health risk. MRDLGs do not reflect the benefits of using disinfectants to control microbial contaminants.

Water Quality Data Table Footnotes

Turbidity: Is a measure of the cloudiness of the water, and is monitored because it's a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Unregulated Contaminants: An MCL for this contaminant has not been established by either state or federal regulations, nor has mandatory health effects language. The purpose for monitoring this contaminant is to assist USEPA in determining the occurrence of unregulated contaminants in drinking water, and whether future regulation is warranted.

Sodium: No state or federal MCL for Sodium. Monitoring is required to provide information to consumers and health officials that are concerned about sodium intake due to dietary precautions. If you are on a sodium-restricted diet, you should consult a physician about this level of sodium in the water.

Fluoride: Added to the water supply to help promote strong teeth. The Illinois Department of Public Health recommends an optimal fluoride range of 0.7 mg/l with a range of 0.6 mg/l to 0.8 mg/l.

<p>Unit of Measurement ppm: Parts per million or milligrams per liter ppb: Parts per billion or micrograms per liter NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water %<0.3 NTU: Percent samples less than 0.3 NTU pCi/L: PicoCuries per liter, used to measure radioactivity</p>
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2020 VILLAGE OF RIVER FOREST WATER QUALITY DATA TABLE							
<u>Contaminant</u> <u>(unit of measure)</u>	<u>MCLG</u>	<u>MCL</u>	<u>Highest</u> <u>Level</u> <u>Detected</u>	<u>Range of</u> <u>Levels</u> <u>Detected</u>	<u>Typical Source of</u> <u>Contamination</u>	<u>Violation</u>	<u>Date of</u> <u>Sample</u>
Disinfectants / Disinfections By-Product							
HAA5 [Haloacetic Acids] (ppb)	No goal for the total	60	27	13.8 - 26.5	By-product of drinking water disinfection.	No	2020
TTHMs [Total Trihalomethanes] (ppb)	No goal for the total	80	34	18.63- 38.8	By-product of drinking water disinfection.	No	2020
Chlorine							
Chlorine (ppm)	MRDLG=4	MRDL=4	1	.8 - 1.14	Water additive used to control microbes.	No	2020
Not all of the above sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.							
Lead and Copper							
	<u>MCLG</u>	<u>Action</u> <u>Level</u>	<u>90th</u> <u>Percentile</u>	<u># Sites</u> <u>Over</u> <u>Action</u> <u>Level</u>	-		
Lead (ppb)	0	15	4.72	0	Corrosion of household plumbing systems; Erosion of natural deposits	No	2020
Copper (ppm)	1.3	1.3	0.108	0	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	No	2020

2020 CITY OF CHICAGO WATER QUALITY DATA TABLE

<i>Contaminant (unit of measure)</i>	<i>MCLG</i>	<i>MCL</i>	<i>Highest Level Detected</i>	<i>Range of Detections</i>	<i>Typical Source of Contamination</i>	<i>Violation</i>	<i>Date of Sample</i>
Turbidity Data							
Turbidity (NTU/Lowest Monthly % ≤ 0.3 NTU)	n/a	TT (Limit 95% ≤ 0.3 NTU)	0.3	100% - 100.0%	Soil runoff	N	
Turbidity (NTU/Highest Single Measurement)	n/a	TT (Limit 1 NTU)	0.16	n/a	Soil runoff	N	
Inorganic Contaminants							
Barium (ppm)	2	2	0.0201	0.0198 - 0.0201	Discharge of drilling wastes and metal refineries, erosion of natural deposits	N	2020
Nitrate (as Nitrogen) (ppm)	10	10	0.42	0.35 - 0.42	Fertilizer runoff, leaching sewage, erosion of natural deposits	N	2020
Total Nitrate & Nitrite (as Nitrogen) (ppm)	10	10	0.42	0.35 - 0.43	Fertilizer runoff, leaching sewage, erosion of natural deposits	N	2020
TOC [Total organic carbon]							
TOC	The percentage of TOC removal was measured each month and the system met all TOC removal requirements set by the IEPA.						
Unregulated Contaminants							
Sulfate (ppm)	n/a	n/a	27.8	27.5 - 27.8	Erosion of naturally occurring natural deposits		
Sodium (ppm)	n/a	n/a	9.55	8.73 - 9.55	Erosion of naturally occurring deposits, used as a water softener	N	2020
State Regulated Contaminants							
Fluoride (ppm)	4	4	0.75	0.65 - 0.75	Water additive which promotes strong teeth		2020
Radioactive Contaminants							
Combined Radium (226/228) (pCi/L)	0	5	0.95	0.83 - .095	Decay of natural and man- made deposits		2020
Gross Alpha excluding radon & uranium (pCi/L)	0	15	3.1	2.8-3.1	Decay of natural and man- made deposits		2020
Regulated Contaminants							
Chlorine (ppm)	MRDLG = 4	MRDLG = 4	1	1-1	Water additive used to control microbes.	N	2020
Haloacetic Acids (HAA5) (ppb)	No Goal	60	12	6.8 - 17.6	By-product of drinking water disinfection.	N	2020
Total Trihalomethanes (TTHM) (ppb)	No Goal	80	29	15 - 40	By-product of drinking water disinfection.	N	2020
Lead and Copper							

	<u>MCLG</u>	<u>Action Level</u>	<u>90th Percentile</u>	<u># Sites Over Action Level</u>	-		
Lead (ppb)	0	15	9.1	0	Corrosion of household plumbing systems; Erosion of natural deposits	No	2018
Copper (ppm)	1.3	1.3	0.091	0	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	No	2018

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