



VILLAGE OF SUMMIT

ILLINOIS

2019 Consumer Confidence Report
Public Water Supply Facility ID: IL0310060
Sergio Rodriguez, Mayor

June, 2020

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

Dear Summit Water Customer;

The Village of Summit, in compliance with the Safe Drinking Water Act (SDWA), is issuing this Consumer Confidence Report (CCR) for the monitoring period of January 1, 2019 through December 31, 2019. The Village of Summit, in conjunction with the City of Chicago and Illinois Environmental Protection Agency (Illinois EPA) are issuing this report to you with important information concerning the quality and source of your drinking water. During 2019, the Village of Summit continued to provide water that meets the monitoring and testing requirements of the United States Environmental Protection Agency (USEPA) and the Illinois EPA drinking water standards.

If you would like to learn more, please contact the Village Hall or visit our web site at <https://summit-il.org/164/Water-Services>; for a direct link to this report, please visit <https://summit-il.org/waterquality>. There you will find the completed Illinois EPA Source Water Assessments and information regarding current Village Water Infrastructure projects. You may also visit the Illinois EPA to access other information regarding Source Water 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 at: <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

Additional Information

If there are any questions, or if additional information is needed, please contact William Mundy, Director of Public Works, at (708) 563-4809. Unless posted in the Village calendar (<https://summit-il.org/calendar.aspx>), the Village Public Works / Water Committee meets on the first Tuesday of every month at 10:00 AM., located in the Strzelczyk Municipal Center, 7321 West 59th Street, Summit, IL. 60501. These meetings are open to the public. You can also contact the USEPA's Safe Drinking Water Hotline at: (1-800-426-4791). Copies of this information will be available at the Village Hall.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

OUTDOOR WATER USE RESTRICTIONS (2-2-17):

- (A) No person shall, during the period of May 15 through September 15, permit or sprinkle any lawn, garden, or landscape area during the hours of twelve o'clock (12:00) noon to six o'clock (6:00) P.M.
- (B) No person shall sprinkle any lawn, garden, or landscape area during prohibited hours after a temporary emergency water shortage is declared by the mayor prohibiting the same.
- (C) No person shall use water for any outside purpose including, but not limited to, watering of lawns; watering of gardens; watering of landscaping; washing of cars; washing of outside areas such as windows, buildings, side walks or driveways; or filling of swimming pools during prohibited hours after a temporary emergency water shortage is declared by the mayor prohibiting the same.
- (D) "Sprinkle" shall mean the use of any device for distributing water over an area not under the active control and in the possession of a person such as by a mechanical or automatic sprinkler or sprinkler system.
- (E) "Watering" shall mean the distribution of water over an area under the active control and in the possession of a person such as by hose or sprinkling can. (Ord. 89-O-3, 6-19-1989)

CONSUMER INFORMATION

The Village of Summit tests the water supply for chlorine content daily to maintain the optimum levels for the consumers' needs. On a monthly basis, bacteriological samples are taken. On a yearly basis, samples are submitted for Total Trihalomethane (TTHM) Analysis. Samples are also provided for lead and copper monitoring on a schedule established by the IEPA. All testing and reports are performed according to the requirements of IEPA.

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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

In order to ensure that tap water is safe to drink, USEPA prescribes regulations that 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. USEPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Lead: 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; lead is not found in the source water. Lead can enter drinking water when service pipes that contain lead corrode, especially where the water has high acidity or low mineral content that corrodes pipes and fixtures. The most common problem is with brass or chrome-plated brass faucets and fixtures with lead solder, from which significant amounts of lead can enter the water, especially hot water. Homes built before 1986 are more likely to have lead pipes, fixtures and solder. The Safe Drinking Water Act (SDWA) has reduced the maximum allowable lead content to a weighted average of 0.25 percent. This is calculated across wetted surfaces of pipes, pipe fittings, plumbing fittings, fixtures and 0.2 percent for solder and flux.

The Safe Drinking Water Act requires the EPA to determine the level of contaminants in drinking water at which no adverse health effects are likely to occur with an adequate margin of safety. These non-enforceable health goals, based solely on possible health risks, are called maximum contaminant level goals (MCLGs). The EPA has set the maximum contaminant level goal for lead in drinking water at zero because lead is a toxic metal that can be harmful to human health even at low exposure levels. Lead is persistent, and it can bioaccumulate in the body over time.

Measures to Reduce Lead in Drinking Water at Home: Flush your pipes before drinking. 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. Use only cold water for drinking, cooking, and especially for making baby formula. Hot water is likely to contain higher levels of lead. Run cold water until it becomes as cold as it can get. Note that boiling water will NOT get rid of lead contamination. Bathing and showering should be safe for you and your children, even if the water contains lead over EPA's action level. Human skin does not absorb lead in water. This information applies to most situations and to a large majority of the population, but individual circumstances may vary.

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 (800-426-4791) or at: <http://www.epa.gov/safewater/lead>.

Source of Drinking Water Contamination: 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 can dissolve naturally occurring minerals and radioactive materials, and pick up substances resulting from the presence of animals or human activity. Possible contaminants consist of:

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 may 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 may also come from gas stations, urban stormwater runoff and septic systems; and

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

2019 VIOLATION SUMMARY TABLE

Village of Summit Violation Table			
Lead and Copper Rule			
The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.			
Violation Type	Violation Begin	Violation End	Violation Explanation
LEAD CONSUMER NOTICE (LCR)	12/30/2019	02/05/2020	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.
Violation Compliance			
The Lead Testing was completed, however the Lead Consumer Notices were not provided to the consumer during the allotted time period. This correction has been made and the Village of Summit is compliance and continues to meet all the requirements of the United States Environmental Protection Agency (USEPA) and the Illinois EPA drinking water standards.			

Source Water Assessment:

In 2019 all of the approximately 400 million gallons of water the Village of Summit distributed came from Lake Michigan. Lake Michigan water is drawn from far offshore structures (known as Cribs) along the bottom of the Lake and treated at the City of Chicago Jardine Water Purification Plant (North of Navy Pier). This water is pumped through large transmission lines to the near Chicago suburbs where it is collected and redistributed. Summit purchases this water directly from the City of Chicago. From there Summit receives this water into our 59th Street reservoir and pumping station facility, which is then distributed through the Village's water main grid system of nearly 30 miles of pipe to the local and retail customer.

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.

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.

To view a summary of the completed Source Water Assessments, including: Importance of Source Water, Susceptibility to Contamination Determination and documentation or 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>.

DEFINITION OF TERMS / UNITS OF MEASUREMENTS

DEFINITION OF TERMS	<p>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.</p> <p>Date of Sample: If a date appears in this column, the Illinois EPA requires monitoring for this contaminant less than once per year because the concentrations do not frequently change. If no date appears in the column, monitoring for this contaminant was conducted during the CCR calendar year.</p> <p>Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.</p> <p>ND: Not detectable at testing limits. N/A: Not applicable</p> <p>Turbidity: Is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of the filtration system and disinfectants.</p>
<p>Maximum Contaminant Level Goal (MCLG): The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.</p> <p>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.</p> <p>Maximum Residual Disinfectant Level Goal (MRDLG): The level of 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.</p> <p>Maximum Residual Disinfectant Level (MRDL): The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.</p> <p>Range of Detections: This column represents a range of individual sample results, from lowest to highest that were collected during the CCR calendar year.</p> <p>Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.</p>	<p style="text-align: center;">UNITS OF MEASUREMENTS</p> <p>ppb: Micrograms Per Liter or Parts Per Billion (or url), or one ounce in 7,350,000 gallons of water.</p> <p>ppm: Milligrams Per Liter or Parts Per Million (or mg/l), or one ounce in 7,350 gallons of water.</p> <p>NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.</p> <p>%<0.3NTU: Percent samples less than 0.3 NTU</p> <p>pCi/L: Picocuries per liter, used to measure radioactivity</p> <p>mrem: Millirems per year (a measure of radiation absorbed by the body)</p>

2019 VOLUNTARY MONITORING (CITY OF CHICAGO)

The City of Chicago has continued monitoring for Cryptosporidium, Giardia and E. coli in its source water as part of its water quality program. To date, Cryptosporidium has not been detected in these samples, but Giardia was detected in 2010 in one raw lake water sample collected in September 2010. Treatment processes have been optimized to provide effective barriers for removal of Cryptosporidium oocysts and Giardia cysts in the source water, effectively removing these organisms in the treatment process. By maintaining low turbidity through the removal of particles from the water, the possibility of Cryptosporidium and Giardia organisms getting into the drinking water system is greatly reduced.

In 2019, CDWM 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. Please address any questions or concerns to DWM's Water Quality Division at 312-742-7499. Data reports on the monitoring program for chromium-6 are posted on the City's website which can be accessed at the following address below:

http://www.cityofchicago.org/city/en/depts/water/supp_info/water_quality_resultsandreports/city_of_chicago_emergincontaminantstudy.html

<p>For more information, please contact Andrea Putz, Deputy Commissioner, Water Quality - Bureau of Water Supply at 312-744-8190</p>	<p>Chicago Department of Water Management Bureau of Water Supply 1000 East Ohio Street Chicago, IL 60611 Attn: Andrea Putz</p>
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REGULATED CONTAMINANTS TABLES

Regulated Disinfectants & Disinfection By-Products	MCLG	MCL	Highest Level Detected	Range of Levels Detected	Units	Municipality	Violation	Collection Date	Likely Source of Contaminants
Chlorine	MRDLG = 4	MRDL = 4	0.9	0.9 — 0.9	ppm	Summit	N	2019	Water additive used to control microbes.
	MRDLG = 4	MRDL = 4	1	1 — 1	ppm	Chicago	N	2019	
Haloacetic Acids (HAA5)	No Goal	60	13	6.82 — 24	ppb	Summit	N	2019	By-Product of drinking water disinfection
	No Goal	60	13	5.1 — 15.6	ppb	Chicago	N	2019	
Total Trihalomethanes (TTHM)	No Goal	80	26	16 — 43	ppb	Summit	N	2019	
	No Goal	80	28	12 — 36.7	ppb	Chicago	N	2019	

Inorganic Contaminants									
Barium	2	2	0.0208	0.0195 — 0.0208	ppm	Chicago	N	2019	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	4	4.0	0.79	0.62 — 0.79	ppm	Chicago	N	2019	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (Measured as Nitrogen)	10	10	0.35	0.33 — 0.35	ppm	Chicago	N	2019	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.
Total Nitrate and Nitrite (Measured as Nitrogen)	10	10	0.35	0.33 — 0.35	Ppm	Chicago	N	2019	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	N/A	N/A	10.2	8.73 — 10.2	ppm	Chicago	N	2019	Erosion from naturally occurring deposits; used in water softener regeneration
Sulfate	N/A	N/A	26.7	25.8— 26.7	ppm	Chicago	N	2019	Erosion of naturally occurring deposits.

Radio Active & Synthetic Organic Contaminants									
Combined Radium 226/228	0	5	0.84	0.5 — 0.84	pCi/L	Chicago	N	02/11/2014	Erosion of natural deposits.
Gross alpha excluding radon and uranium	0	15	6.6	6.1 — 6.6	pCi/L	Chicago	N	02/11/2014	Erosion of natural deposits.

Coliform Bacteria									
Total Coliform Maximum Contaminant Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. Positive E. Coli or Fecal Coliform Samples	Municipality	Violation	Likely Source of Contaminants		
0	5% of Monthly Samples are positive.	0.4		0	Summit	N	Naturally present in the environment.		
0	5% of Monthly Samples are positive.	0.4		0	Chicago	N	Naturally present in the environment.		

Lead and Copper									
	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Municipality	Violation	Date Sampled	Likely Source of Contaminants
Lead	0	15	10	2	ppb	Summit	N	2019	Corrosion of household plumbing systems; Erosion of natural deposits.
	0	15	9.1	0	ppb	Chicago	N	09/19/2018	
Copper	1.3	1.3	0.066	0	ppm	Summit	N	2019	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
	1.3	1.3	0.091	0	ppm	Chicago	N	09/19/2018	

Turbidity		Limit (Treatment Technique)	Level Detected	Municipality	Violation	Likely Source of Contaminants
Highest Single Measurement %		1 NTU	0.14 NTU	Chicago	N	Soil Runoff.
Lowest Monthly % meeting Limit		0.3 NTU	100%	Chicago	N	Soil Runoff.

Total Organic Carbon:
The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

UNREGULATED CONTAMINANTS UCMR4 COMPLIANCE:

In compliance with the Unregulated Contaminant Monitoring Rule 4 (UCMR4) as required by the EPA, the Village of Summit has monitored contaminants suspected to be present in drinking water, that do not have health-based standards set under the Safe Drinking Water Act (SDWA). The monitoring results were reported to the EPA. The list of UCMR4 contaminants the Village of Summit monitored are, 10 Cyanotoxins (Nine Cyanotoxins and One Cyanotoxin Group); which are, Total Microcystins, Microcystin-LA, Microcystin-RR, Microcystin-LF, Microcystin-YR, Microcystin-LR, Microcystin-LY, Nodularin, Cylindrospermopsin, Anatoxin-a. Also, 20 additional contaminants; which are, Germanium, Manganese, Alph-Ahexachlorocyclohexane, Profenofos, Chlorpyrifos, Tebuconazole, Dimethipin, Total Permethrin (cis- & trans-), Ethoprop, Tribufos, Oxyfluorfen, HAA51, HAA6Br1, HAA91, 1-Butanol, 2-Propen-1-ol, 2-Methoxyethanol, Butylated Hydroxyanisole, O-Toluidine, and Quinoline. The table below shows these results.

Disinfectants & Disinfection By-Products	MCLG	MCL	MRL	Highest Level Detected	Range of Levels Detected	Units	Municipality	Collection Date	Likely Source of Contaminants
O-toluidine	N/A	N/A	0.007	0.012	ND — 0.012	µg/L	Summit	2019	Synthetic chemical; used in the manufacture of dyes; production of rubber, chemicals, pesticides, and epoxy compounds. Has been detected in a variety of foods.
Manganese	N/A	N/A	0.4	0.579	0.547 — 0.579	µg/L	Summit	2019	Naturally-occurring element that can be found ubiquitously in the air, soil, and water; Transition metal extracted from ore; Alloy and stainless steel manufacturing; Used in batteries, glass, and cleaning solutions.
HAA5	N/A	N/A	N/A	15.11	7.152 — 15.11	µg/L	Summit	2019	By-product of drinking water disinfection.
HAA6Br	N/A	N/A	N/A	12.232	8.424 — 12.232	µg/L	Summit	2019	By-product of drinking water disinfection.
HAA9	N/A	N/A	N/A	23.964	14.682 — 23.964	µg/L	Summit	2019	By-product of drinking water disinfection.