

2022 Water Quality Report / Consumer Confidence Report
Central Stickney Sanitary District (CSSD)
Public Water Supply Facility ID: IL0315570
Jason Gustafson, Superintendent

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

Dear CSSD Water Customer,

We want to keep our valued customers informed about their water quality. If you would like to learn more, you are welcome to attend any of our regularly scheduled CSSD Board meetings, which are held on the first Tuesday of every month at 6:00 PM at 4960 S Laramie Ave, Chicago, Illinois 60638. These meetings are open to the public. If you have any questions or concerns regarding this Consumer Confidence Report, please contact Walter Dowling, Water Operator, at 708-496-3520. Additional information about our community water supply Source Water Assessment Program can be found at <http://dataservices.epa.illinois.gov/swap/factsheet.aspx>.

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. Copies of this information will be available at CSSD or contact Walter Dowling, Water Operator, at 708-496-3520

Additional Information: The source water assessment for our supply has been completed by the Illinois EPA. To learn more about Source Water Assessments, which cover topics like the importance of source water, susceptibility to contamination determination, and documentation/recommendation of Source Water Protection Efforts, you can access the Illinois EPA website at <https://dataservices.epa.illinois.gov/swap/factsheet.aspx>. Additionally, to view a summary of the completed Source Water Assessments, including information about the importance of source water, susceptibility to contamination determination, and documentation/recommendation of Source Water Protection Efforts, please visit the Illinois EPA website at: <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>

CONSUMER INFORMATION

To ensure the safety of your drinking water, CSSD conducts daily testing of chlorine levels and takes monthly bacteriological samples. Annually, we submit samples for Total Trihalomethane (TTHM) Analysis, and perform lead and copper monitoring on a schedule established by the IEPA. All testing and reporting are conducted in compliance with IEPA requirements to maintain high-quality standards of water safety.

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The 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. The EPA and the Center for Disease Control and Prevention (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).

Lead: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead is not found in the source water. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We cannot control the variety of materials used in plumbing components. A common source is from brass or chrome-plated brass faucets, and fixtures with lead solder, from which significant amounts of lead can enter into the water, especially from hot water use. 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 that is considered "lead-free" to be a weighted average of 0.25 percent calculated across the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures and 0.2 percent for solder and flux.

The Safe Drinking Water Act (SDWA) mandates that the EPA establishes maximum contaminant level goals (MCLGs) to determine the level of contaminants in drinking water that pose no risk to human health with an adequate margin of safety. The MCLG for lead in drinking water has been set to zero by the EPA due to its toxicity and potential harm to human health even at low levels of exposure. Since lead is persistent and can accumulate in the body over time, it is crucial to keep it out of drinking water.

Measures to Reduce Lead in Drinking Water at Home: To minimize the potential for lead exposure, it is recommended to flush your tap for 30 seconds to 2 minutes before using water for drinking or cooking, especially if the water has been sitting for several hours. Use only cold water for drinking, cooking, and making baby formula, as hot water is likely to contain higher levels of lead. Run cold water until it becomes as cold as possible. Boiling water will NOT get rid of lead contamination. Bathing and showering should be safe, even if the water contains lead above the EPA's action level, since human skin does not absorb lead in water. While this information applies to most situations and to a large majority of the population, 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>.

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 WATER ASSESSMENT: In 2022, the CSSD purchased approximately 46 million gallons of Lake Michigan water, which is drawn from offshore structures (known as Cribs) and treated at the City of Chicago Jardine Water Purification Plant. The CSSD purchases this water directly from the City of Chicago and receives it into our reservoir and pumping station facility at 50th Street and Laramie Avenue. From there, the water is pumped through the CSSD's 4-mile water main grid system to residents, businesses, and public facilities.

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>.

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 for 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 OF DRINKING WATER CONTAMINATION: The source for both tap water and bottled water includes 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. 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 process 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.

THE CITY OF CHICAGO TESTING INFORMATION

2022 Voluntary Monitoring

The City of Chicago has continued monitoring for Cryptosporidium, Giardia and E. coli in its source water as part of its water quality program. No Cryptosporidium or Giardia was detected in source water samples collected in 2022. 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 2022, 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 312-744-8190. Data reports on the monitoring program for chromium-6 are posted on the City's website which can be accessed at the following address, https://www.chicago.gov/city/en/depts/water/supp_info/water_quality_resultsandreports.html.

For more information, please contact Andrea Cheng, Acting Commissioner at 312-744-8190. Chicago Department of Water Management, 100 East Ohio Street, Chicago IL 60611, Attn: Andrea Cheng.

DEFINITION OF TERMS / UNITS OF MEASUREMENTS

<u>DEFINITION OF TERMS</u>	
<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>Unregulated Contaminants: A maximum contaminant level (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.</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>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>
<u>UNITS OF MEASUREMENTS</u>	
<p>ppb: Micrograms Per Liter or Parts Per Billion (or µg/l), 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>	

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 Contamination
Chlorine	MRDLG = 4	MRDL = 4	1	0.93 – 1.3	ppm	CSSD	N	12/31/2022	Water additive used to control microbes.
	MRDLG = 4	MRDL = 4	1	1 – 1.3	ppm	Chicago	N	12/31/2022	
Haloacetic Acids (HAA5)	No Goal	60	12	11.93 – 11.93	ppb	CSSD	N	2022	By-product of drinking water disinfection
	No Goal	60	12	5.8 – 15	ppb	Chicago	N	2022	
Total Trihalomethanes (TTHM)	No Goal	80	62	62.3 – 62.3	ppb	CSSD	N	2022	
	No Goal	80	25	13 – 37.6	ppb	Chicago	N	2022	
Inorganic Contaminants									
Barium	2	2	0.0201	0.0193 – 0.0201	ppm	Chicago	N	2022	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	4	4	0.76	0.63 – 0.76	ppm	Chicago	N	2022	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (Measured as Nitrogen)	10	10	0.30	0.30 – 0.30	ppm	Chicago	N	2022	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.
Total Nitrate & Nitrite (as Nitrogen)	10	10	0.30	0.30 – 0.30	ppm	Chicago	N	2022	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	N/A	N/A	9.08	8.56 – 9.08	ppm	Chicago	N	2022	Erosion from naturally occurring deposits. Used in water softener regeneration.
Sulfate	N/A	N/A	27.1	25.8 – 27.1	ppm	Chicago	N	2022	Erosion of naturally occurring deposits.
Radio Active & Synthetic Organic Contaminants									
Combined Radium 226/228	0	5	0.95	0.83 – 0.95	pCi/L	Chicago	N	02/04/2020	Erosion of natural deposits.
Gross alpha excluding radon and uranium	0	15	3.1	2.8 – 3.1	pCi/L	Chicago	N	02/04/2020	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 Contamination		
0	1 positive monthly sample.	1		0	CCSD	N	Naturally present in the environment.		
0	5% of Monthly Samples are positive.	0.4		0	Chicago	N			
Lead and Copper									
	MCLG	Action Level	90th Percentile	# Sites Over AL	Units	Municipality	Violation	Date Sampled	Likely Source of Contamination
Lead	0	15	6.8	0	ppb	Chicago	N	2022	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper	1.3	1.3	0.065	0	ppm	Chicago	N	2022	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Water Clarity									
Turbidity	Limit (Treatment Technique)	Level Detected	Violation	Municipality	Likely Source of Contamination				
Lowest Monthly % Meeting Limit	0.3 NTU	100%	N	Chicago	Soil Runoff				
Highest Single Measurement	1 NTU	0.3 NTU	N	Chicago	Soil Runoff				
<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>Chicago Total Organic Carbon (TOC): The percentage of 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.</p>									
2022 Violations: None									