IN THE SPOTLIGHT: CITY WATER QUALITY

Rolling Meadows drinking water once again meets all United States Environmental Protection Agency (USEPA) and state drinking water standards.

This Consumer Confidence Report (CCR) provides basic facts regarding the City's water system, so that individuals have the information necessary to make water consumption decisions based on their personal health.

The annual report provides a general overview of water quality and water system operations. It details where the water comes from, what it contains, and how it compares to regulating agency standards. Most of the information and statements contained in this report are required by the Illinois Environmental Protection Agency for public knowledge.

2019 VIOLATION SUMMARY TABLE

The Cities of Rolling Meadows and Chicago had no violations to report. This report follows a format prescribed by the federal government and is published as an annual requirement of the federal and Illinois EPA.

ESPAÑOL

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



Water taken directly from Lake Michigan at the James W. Jardine Water Purification Plant near Navy Pier (above) is pumped to the Northwest Suburban Municipal Joint Action Water Agency, which supplies water to Rolling Meadows.

CITY EMPLOYEES COMMITTED TO PROVIDING SAFE, HIGH QUALITY DRINKING WATER

Ensuring the quality of residents' drinking water is something in which employees of the Public Works Department's Water Operations Division take great pride.

Their commitment to meeting state and federal water quality mandates involves:

- Operating four pumping stations that retain or distribute water as consumption fluctuates throughout the day.
- Maintaining water storage requirements of 5.5 million gallons.
- Managing redundant operations for use during critical events.

Since 1986, our community has been 100% reliant on Lake Michigan for

treated water for daily use. Water pumped from the City of Chicago's treatment facility is delivered to Rolling Meadows through the Northwest Suburban Municipal Joint Action Water Agency (NSMJAWA), located near O'Hare International Airport, using a network of transmission mains.

Rolling Meadows has three delivery points throughout the City that regulate incoming flow. The daily flow rate is adjusted to meet system demands and maintain a sufficient amount of water for emergency uses, such as firefighting needs.

Should a disruption of water flow from NSMJAWA occur, the City's water system includes four deep wells, emergency generators, and an interconnect with the Village of Palatine to ensure an uninterruptible supply of water.

CONTAMINANTS MAY BE NATURAL, MAN MADE

Sources of tap and bottled drinking water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over 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 may be:

Inorganic – Salts and metals, which may be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and farming.

Microbial – Viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Pesticides and Herbicides – These come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

Organic Chemical – Synthetic and volatile organic chemicals, which are byproducts of industrial processes, and petroleum production. They may also come from gas stations, urban storm water runoff, and septic systems.

Radioactive – Naturally occurring or the result of oil/gas production and mining.





SOURCE WATER ASSESSMENT AVAILABLE FOR CUSTOMER REVIEW AT PUBLIC WORKS DEPT.

We want our customers to be informed about their water quality. The Source Water Assessment for our water supply (Lake Michigan) has been completed by the Illinois EPA. For a copy of this information, please visit our website (www.cityrm.org), stop by the Public Works Department, or call 847-963-0500.

To view a summary version of the completed Source Water Assessment,

for mandatory treatment of all public water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration, and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems), and shoreline erosion.

Chicago's offshore intakes are located at a distance where shoreline impacts are not usually considered a factor on

Source Water Name	Type of Water	Report Status	Location	
CC 08 Golf Road Delivery Structure	FF IL0315400 TP01	Lake - SW	Active	Golf Rd. & Wilke Rd.
CC 09 Apollo Drive Delivery Structure	FF IL0315400 TP01	Lake - SW	Active	Apollo Dr.
CC 10 Quintin Road Delivery Structure	FF IL0315400 TP01	Lake - SW	Active	Quentin Rd.

including Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, visit the Illinois EPA Website at www.epa.state.il.us/cgibin/wp/swap-fact-sheets.pl/.

The IEPA considers all surface water sources of community water supply to be susceptible to potential water pollution risks. The very nature of surface water allows contaminants to migrate into the intake with no protection – only dilution. That is the reason

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 water fowl, gulls, and terns that frequent the Great Lakes area. This may concentrate fecal deposits at the intake and compromise 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.

TABLE FOOTNOTES (PAGES 3 AND 4)

Fluoride – Added to the water supply to help promote strong teeth. The Illinois Department of Public Health recommends an optimal fluoride range of 0.9 mg/l to 1.2 mg/l.

Sodium – There is not a state or federal MCL for sodium. Monitoring is not required to provide information to consumers and health officials who are concerned about sodium intake due to dietary precautions. Residents on a sodium-restricted diet should consult a physician about this level of sodium in the water.

Turbidity – A measure of the cloudiness of the water. It's monitored because it's a good indicator of water quality and the effectiveness of the filtration system and disinfectants.

Unregulated Contaminants – Neither a maximum contaminant level (MCL) nor mandatory health effects language has been established for this contaminant by either state or federal regulations. 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.

WATER QUALITY DATA: CITY OF CHICAGO - 'PARENT WATER SUPPLY' (2019)

Contaminants that may be in water include:	Date of Sample	Viola- tion	Level Found	Range of Detection	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Turbidity Data								
Turbidity		NONE	100%	100%- 100%	(% ≤ 0.3 NTU)	n/a	TT(Limit95% ≤ 0.3 NTU)	Soil Runoff. NTU / Lowest monthly (% ≤ 0.3 NTU)
Turbidity		NONE	0.14	n/a	(NTU)	n/a	TT(Limit 1 NTU)	Soil Runoff. NTU / Highest single measurement
Inorganic Contaminants								
Barium		NONE	0.0208	.0195 - 0.0208	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Nitrate (as Nitrogen)		NONE	0.35	0.33 - 0.35	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Total Nitrate & Nitrite (as Nitrogen)		NONE	0.35	0.33 - 0.35	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Total Organic Carbon								
The percentage of Total Organic	Carbon (TO	C) removal	was measur	red each month	and the sys	tem met al	l TOC removal requ	uirements set by IEPA.
Unregulated Contaminants								
Sulfate		NONE	26.7	25.8 - 26.7	ppm	n/a	n/a	Erosion of naturally occurring deposits.
Sodium		NONE	10.2	8.73 - 10.2	ppm	n/a	n/a	Erosion of naturally occurring deposits; used as water softener.
State Regulated Contaminants	S							
Fluoride		NONE	0.79	0.62 - 0.79	ppm	4	4	Water additive that promotes strong teeth.
Radioactive Contaminants								
Combined Radium (226/228)	2/11/14	NONE	0.84	0.50 - 0.84	pCi/I	0	5	Decay of natural and man made deposits.
Gross Alpha excluding Radon and Uranium	2/11/14	NONE	6.6	6.1 - 6.6	pCi/I	0	15	Decay of natural and man made deposits.

Some contaminants are sampled less frequently than once a year. As a result, not all contaminants were sampled during the CCR calendar year. If any of these contaminants were detected the last time they were sampled, they are included in the table along with the date that the detection occurred.

TABLE DEFINITIONS

Level 1 Assessment – 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 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.

MCLG (maximum contaminant level goal) – 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.

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.

Date of Sample – If a date appears in this column, the EPA requires monitoring for this contaminant less than once a year, because concentrations do not frequently change. If no date appears in this column, monitoring for this contaminant was conducted during the CCR calendar year.

Level Found – An average of sample result data collected during the CCR calendar year. In some cases, it may represent a single sample if only one sample was collected.

Range of Detection – A range of individual sample results (lowest to highest) that were collected during the calendar year.

Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Action Level Goal (AGL) – The level of the contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Avg. – Regulatory compliance with some MCLs are based on running annual averages of monthly samples.

mrem – Millirems per year (a measure of radiation absorbed by the body)

n/a - Not applicable

nd – Not detectable at testing limits

TT (treatment technique) – A process required to reduce the level of a contaminant in the drinking water.

ppm - Parts per million, or milligrams per liter

ppb - Parts per billion

ppt - Parts per trillion

ug/I - Micrograms per liter

pos/mo - Number of positive samples per month

NTU – Nephelometric Turbidity Unit, used to measure cloudiness in drinking water

pCi/I – Picocuries per liter, used to measure radioactivity

%<0.3 NTU - Percent of samples less than 0.3 NTU

% pos/mo - Percent of positive samples per month

Maximum Residual Disinfectant Level Goal (MRDLG)

- The level of a drinking water disinfectant below which

 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.

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.



WATER QUALITY DATA: CITY OF ROLLING MEADOWS WATER SUPPLY (2019)

Contaminants that may be in water include:	Date of Sample	Viola- tion	Level Found	Range of Detection	Unit of Mea- sure	MCLG	MCL	Likely Source of Contamination	
Disinfectants/Disinfection By-Pro	oducts								
Chlorine	2019	None	1	0.9 - 1.0	ppm	MRDLG=4	MRDL=4	Water additive to control microbes.	
TTHMs (Total Trihalomethanes)	2019	None	40	20.29 - 60.7	ppb	No Goal	80	Byproduct of drinking water disinfection	
HAA5 (Haloacetic Acid)	2019	None	30	13.5 - 42.2	ppb	No Goal	60	Byproduct of drinking water disinfection	
Inorganic Contaminants									
Barium	2019	None	0.0391	0.0391 - 0.0391	ppm	2	2	Discharge from drilling wastes; discharge from metal refineries; erosion of natural deposits.	
Chromium	2019	None	10.8	10.8 - 10.8	ppb	100	100	Discharge from steel and pulp mills; erosion of naturial deposits.	
Fluoride	2019	None	0.98	0.98 - 0.98	ppm	4	4	Erosion of natural deposits; water additive for strong teeth; discharge from fertilizer & aluminum factories.	
Iron	2019	None	0.263	0.263 - 0.236	ppm	n/a	1.0	Erosion of natural deposits. This contaminate is not currently regulated by the USEPA. However, the state regulates.	
Sodium	2019	None	24.3	24.3 - 24.3	ppm	n/a	n/a	Erosion of naturally occurring deposits; used in water softening regeneration.	
Radioactive Contaminants									
Combined Radium 226/228	2019	None	15.1	5.56 - 15.1	pCi/l	0	5	Erosion of natural deposits.	
Gross Alpha excluding radon and uranium	2019	None	17.6	2.82 - 17.6	pCi/l	0	15	Erosion of natural deposits.	
Contaminants that may be in water include:	Date of Sample	Viola- tion	MCLG	Action Level	90th Per- centile	# of Sites Over AL	Units	Likely Source of Contamination	
Lead and Copper	1								
Copper	7/19/17	None	1.3	1.3	0.117	0	ppm	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.	
Some contaminants are sampled I were detected the last time they v								CCR calendar year. If any of these contaminants	
UCMR4 Compliance Reporting									
In Compliance with the Unregulate pected to be present in drinking w This Monitoring provides a basis for	ater, but that	do not have	health-bas	sed ståndards se	t under the	Safe Drinking	Water Act. Th	ows has monitored for 30 contaminants sus- e monitoring results were reported to the EPA. ow.	
Monochloroacetic Acid	2019		0.6	0.3 - 0.6	ug/l	n/a	n/a	Used in drugs, dyes, pesticides, PVC, and some cosmetics.	
Dichloroacetic Acid	2019		10.0	0.36 - 10.0	ug/l	n/a	n/a	Used in drugs, dyes, pesticides, PVC, and some cosmetics.	
Trichloroacetic Acid	2019		14.0	8.7 - 14.0	ug/l	n/a	n/a	Byproduct of drinking water disinfection.	
Bromochloroacetic Acid	2019		3.6	1.5 - 3.6	ug/l	n/a	n/a	Byproduct of drinking water disinfection.	
Dibromoacetic Acid	2019		1.2	ND - 1.2	ug/l	n/a	n/a	Naturally occurring; used in making steel and other alloys.	
Bromodichloroacetic Acid	2019		11.0	3.9 - 11.0	ug/l	n/a	n/a	Byproduct of drinking water disinfection.	
Oblete bides as a setie A sid	2019		4.3	1.5 - 4.3	ug/l	/-	n/a	Used as a herbicide, preservative and bacteriostat.	
Chlotobidromoacetic Acid	2019			1.5 - 4.5	ug/i	n/a	11/U	The state of the s	
Total Haloacetic Acid	2019		24.0	15.0 - 24.0	ug/l	n/a n/a	n/a	The state of the s	
								riostat.	
Total Haloacetic Acid	2019		24.0	15.0 - 24.0	ug/l	n/a	n/a	riostat. Byproduct of drinking water disinfection.	

NEWS YOU CAN USE

TOSS IT, DON'T FLUSH IT NON-FLUSHABLES INCREASE RISK OF SEWER BACK-UPS



As families sheltered-in-place in response to the COVID-19 pandemic. Public Works reported a spike in emergency

sewer backups caused by residents flushing "non-flushable" items down their toilets.

Dan Seveska, Public Works' Utilities Superintendent, has some advice for homeowners looking to avoid similar problems: unless it's toilet paper, DON'T FLUSH IT.

"Items such as wipes and paper towels cause sewer system clogs if flushed

down the toilet. This can easily lead to backups and costly home repairs," he explained. "Residents should only be flushing toilet paper. Toss everything else in the garbage."

Non-flushable items include:

- · Paper towels
- · Baby wipes
- · Sanitary products
- Kleenex

Residents should avoid even so-called "flushable/biodegradable" wipes. They don't break down as advertised and can clog sewer lines.

FATS, OILS & GREASE **CAUSE SEWAGE** BACKUPS, OVERFLOWS

FACT: Nearly 50% of all sewage overflows and backups nationwide are caused by fats, oils, and grease (FOG) being poured down the drain.

FOG is what remains in your pots and pans after you fry bacon, broil burgers, or bake meat. These substances build up over time when rinsed or poured down your drain/ garbage disposal. Eventually, they will cause sewers to back up into homes and businesses; and overflow into local streams, rivers, and lakes.

Prevention is Key

While Rolling Meadows' Underground Utilities Division employees are trained to respond to (and resolve) backups and overflows caused by FOG, preventing backups from occurring in the first place is the ideal solution to this growing problem.

Follow these simple steps when disposing of fats, oils, and grease:

- 1. Pour lukewarm grease from pans into a durable, disposable container (such as a frozen juice carton).
- 2. Use a spatula to scrape as much remaining grease as possible out of the pan, then use a paper towel to wipe the pan clean before washing.
- 3. Store grease containers in the freezer and reuse, when necessary, until they are filled. Then, throw them away.

PUBLIC WORKS ISSUES COVID-19 REFUSE GUIDELINES

Public Works has issued the following quidelines for residential refuse customers to help protect the health and well-being of City refuse crews:

- Bag and Tie All Garbage Collect all trash in bags (and completely seal those bags) before placing them at the curb. Open, untied, or damaged bags will not be picked up.
- Throw Away Recyclables if Symptoms Appear - Place all recyclables into the trash if someone in your home experiences symptoms indicative of COVID-19. It is safe to resume normal recycling if/when all

family members are no longer ill.

· Do Not Recycle PPE - Place all used personal protective equipment (masks, gloves, tubes, etc.) into the trash. They cannot be recycled.



SUMMER SPRINKLING BAN CONSERVES RESOURCES



The ordinance, revised by City Council in 2015 to meet updated conservation standards established by the Illinois Department of Natural resources, also prohibits lawn sprinkling on any two consecutive days. Per City statute, newly-planted lawns less than three months old may be exempt from this provision.

RUN FAUCETS BEFORE DRINKING OR COOKING TO MINIMIZE POTENTIAL LEAD EXPOSURE

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 Rolling Meadows is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components.

If your faucet has not been used for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to two 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 - including testing methods and steps you can take to minimize exposure - is available from the Safe Drinking Water Hotline (800-426-4791) or at www.epa.gov/ safewater/lead.

UNITED STATES EPA REGULATES CONTAMINANT LEVELS TO ENSURE PUBLIC SAFETY

To ensure that tap water is safe to drink, the USEPA prescribes regulations that limit the amount of

certain contaminants in water provided by public water

systems.

e hv Cryp Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water. which must provide the same protections for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as per-

sons 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).

EPA HOTLINE OFFERS WATER QUALITY INFORMATION

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, potential health effects, and ways to lessen the risk of infection are available from the USEPA's Safe Drinking Water Hotline (800-426-4791).

REPORT COMPLIES WITH SAFE DRINKING **WATER ACT**

The Public Works Department publishes this annual Water Quality newsletter to meet the requirements of the Federal Safe Drinking Water Act and to provide information about Rolling Meadows' water system to our customers.

The Water Operations Division is diligent in its efforts to ensure that drinking water delivered to homes and businesses remains safe and of the highest quality.

CITY QUALIFIES FOR REDUCED SAMPLING

Because of satisfactory lead and copper sampling results since August 1992, Rolling Meadows has been placed on the reduced site monitoring program by the Illinois EPA. Samples to test for lead levels are collected every three years.

To become eligible for reduced sampling, the City's 90th percentile sample had to be below the EPA requirements of 15 parts per billion. The results were less than 5 parts per billion.

QUESTIONS ABOUT WATER QUALITY?

If you have any questions about this report or concerns regarding the water system, please contact Jeff Stewart, Public Works Department, Water Operations, at 847-963-0500 (ext. 7024).

City Council meetings sometimes have water systems-related topics on the agenda. Meetings are open to the public and are held the second and fourth Tuesdays of each month. Visit www.cityrm. org for confirmed dates and times.