

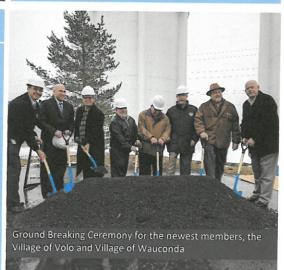
This is your annual water quality report for the period of January 1 through December 31, 2019. Each year the Village of Round Lake Heights issues this report to provide you information about the quality of our drinking water, the source of our water, how it is treated, and the regulated compounds it contains. These reports are issued in compliance with the Safe Drinking Water Act. For more detailed information about our water's quality, including test results for unregulated compounds contact Melissa Olenick at CLCJAWA at 847-295-7788, email at molenick@clcjawa.com, contact George Johnson at 847-546-1206, visit our website at www.villageofroundlakeheights.org, or visit the CLCJAWA web page at www.ckjawa.com. Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alquien que lo entienda bien.

oxygen. The water is then mixed with coagulant to remove sediment and other material from the water. Once clarified, the water is further refined as it passes through filters containing activated carbon and fine sand to remove any remaining cloudiness or turbidity. Turbidity is then measured to determine water clarity. Treatment facilities monitor turbidity because it is a good indicator of water quality and the effectiveness of their filtration and disinfection systems. At CLCJAWA, turbidity is checked every ten seconds in numerous locations by automatic monitoring equipment and twice a day, by hand, in the CLCJAWA Raw Water Pump Station located on the Bluff of laboratory (see results on page 3). Next the water is treated with ultraviolet light to inactivate any **EXCELLENCE IN WATER TREATMENT** remaining organisms. Finally, the

FROM THE SOURCE

Villages purchase water from the Central Lake County Joint Action Water Agency. CLCJAWA is an inter-governmental cooperative, directed by the communities it serves: Grayslake, Gurnee, Lake Bluff, Lake Villa, Libertyville, Lindenhurst, Mundelein, Round Lake, Round Lake Beach, Round Lake Heights, Round Lake Park, Volo, Wauconda and Lake County representing the unincorporated areas of Knollwood and Rondout, Vernon Hills, Wildwood, Grandwood Park and Fox Lake Hills.

CLCJAWA received the Excellence in Water Treatment award for the last 14 years. CLCJAWA was the third facility in the nation to achieve this distinction presented by the Partnership for Safe Water. This voluntary water quality program, sponsored in part by the United States Environmental Protection Agency, holds its awardees to higher standards than required by current Federal and State drinking water regulations.



lead and copper, found in our homes' plumbing Village of systems. Round Lake Heights 619 W. Pontiac Court Round Lake Heights, IL 847-546-1206

purified water is treated with chlorine to protect it as it travels through the water main, fluoride for dental health, and a small amount of an often used food additive called phosphate. Phosphate protects the water from the metals, such as

The enhanced water purification process used by CLCJAWA is unique. First, the water is treated with ozone

to kill organisms and break down contaminants. Ozone is produced on-site from air, bubbled into the water, and then converted back into

www.villageofroundlakeheights.org

LEAD AND DRINKING WATER

Elevated levels of lead can cause serious health problems, especially in pregnant women and young children. Some homes with old lead service lines, lead plumbing, or copper plumbing with lead solder, may have lead and copper in their water. To minimize these levels, the Illinois EPA requires that CLCJAWA add phosphate to our water at a concentration of 0.3 ppm orthophosphate. This commonly used food ingredient thinly coats the inside of your premise plumbing.

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. For the best quality and to minimize the potential for lead and copper exposure, you may flush your tap until the water is cool or for 30 seconds to 2 minutes before using the water for drinking or cooking. To know with certainty whether you have lead or copper in your drinking water, have your water tested at a certified laboratory. Please call us at 847-295-7788 for testing information.

As of January 16, 2017, all schools kindergarten through 5th graders, as well as day care facilities, must test all water sources used for cooking and drinking for the presence of lead. Any facilities constructed after 2000 are not required to complete the testing at this time. Schools should notify parents of the results, if any levels exceed 5 ppb at any location, as well as any actions the schools are taking to reduce the levels. Water providers have now generated an inventory of all known lead service lines in use, and are issuing public notification to homeowners of local water main construction or repair work that might increase the risk of lead exposure. For more information on lead in drinking water, testing methods and steps you can take to minimize exposure, contact the Safe Drinking Water Hotline at 1-800-426-4791 or go to http://www.epa.gov/safewater/lead.

Our tap water quality is consistently monitored by the Village, by the Illinois Environmental Protection Agency (IEPA), in the CLCJAWA Water Quality Lab, and by other independent labs. This aggressive water quality assurance program is thorough: bacteriological tests are conducted six times more often than required, water clarity is monitored every 10 seconds, and our water is checked for over three hundred contaminants annually.





The Village Board has a monthly meeting schedule, and the public is always welcome to attend any of these meetings. Our Mayor is also a member of the Board of Directors of CLCJAWA, which meets regularly. Please visit the website at www.clcjawa.com for the current meeting schedule. CLCJAWA provides tours of the water treatment facility, and staff members are also available for public speaking or for school visits. Please contact the Village or CLCJAWA for more information.

LAKE MICHIGAN EXPOSURE TO CONTAMINANTS

The Illinois EPA, using the Great Lakes Protocol, completed source water assessment in April 2003. Lake Michigan is a surface water source and like all surface waters, is susceptible to potential contaminants. The very nature of surface water allows contaminants to migrate to the intake with no protection, only dilution. CLCJAWA's intake is ranked as moderately sensitive to potential contaminants. There are no potential contamination sources within the intake's critical assessment zone. However, the combination of land use, storm sewer outfalls, and the proximity of North Shore Water Reclamation District (NSWRD) pumping stations in the immediate area add to the susceptibility of CLCJAWA's intake. NSSD discharges their treated waste water to the Des Plaines River and not into Lake Michigan. Access the following website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl to view a summary of the source water assessment. We are all participants in the water cycle. Our individual activities impact the rivers and lakes in our watershed and those into which our waste water plants discharge. Please properly use, store, and dispose of all medications and household chemicals. Visit the Solid Waste Agency of Lake County website for disposal options and information at www.swalco.org.

CLCJAWA utilizes over 50 miles of pre-stressed concrete, ductile iron and PVC water main to deliver water to your community. Round Lake Heights Public Works Department, in turn, maintains its own water distribution system that delivers the water to homes, schools and businesses in the community. The Village is in the process of completing a multi-year water system improvement plan. These improvements are a continuation of the 15-year comprehensive water main replacement program that was initiated in 1997. These improvements further assure the continued, uninterrupted conveyance of quality drinking water to your tap. The Village also maintains an emergency back-up well. This well is exercised and tested regularly for quality assurance. Please contact us if you would like to review the test results.



REGULATORY AGENCIES

To ensure tap water safety, the U.S. Environmental Protection Agency (USEPA) prescribes limits on the amount of certain contaminants in our drinking water. Water quality may be judged by comparing our water to USEPA benchmarks for water quality. One such benchmark is the Maximum Contaminant Level Goal (MCLG). The MCLG is the level of a contaminant in drinking water below which there is no known or expected risk to health. This goal allows for a margin of safety. Another benchmark is the Maximum Contaminant Level (MCL). An MCL is the highest level of a contaminant that is allowed in drinking water. An MCL is set as close to an MCLG as feasible using the best available treatment technology.



IMMUNE COMPROMISED PEOPLE

Some people may be more vulnerable to drinking water contaminants than the general population. Immune 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 from their health care providers about drinking water. The USEPA and Center for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the USEPA Safe Drinking Water Hotline at 1-800-426-4791.

Drinking water, including bottled water, may reasonably be expected to contain 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 may be obtained by calling the US Environmental Protection Agency's (USEPA) Safe Drinking Water Hotline at 1-800-426-4791. Both tap and bottled water come from rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of land or through the ground, it dissolves naturally occurring materials and can pick up substances resulting from the presence of animal or human activity. Contaminants that may be present in untreated water include:

- Microbial contaminants such as viruses and bacteria can be naturally occurring or may come from sewage treatment plants, septic systems, and livestock operations
- Inorganic contaminants such as salts and metals can be naturally occurring or result from urban storm water runoff, wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides come from sources such as agricultural and residential storm water runoff.
- Organic chemical contaminants including synthetic and volatile organic compounds are by-products of industrial processes and petroleum production but can also come from gas stations, urban storm water runoff and sentic system.
- Radioactive contaminants can be naturally occurring or be the result of oil, gas and mining activities. Pesticides and herbicides come from sources such as agricultural and residential storm water runoff.
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Water	Quality Conta	minants	Detected	in 2019		
Contaminant (unit of measure) Typical Source of Contaminant	Highest Level Detected	MCLG	MCL	Range of Detection	Violation	Date of Sample
	MICROBIA	L CONTAMI	NANTS			
Total Coliform Bacteria (% Pos/Month) Naturally present; human and animal fecal waste	0	0	1 per month	none	In Compliance	12/2019 Monthly
E. Coli (% Pos/Month) Naturally present; human and animal fecal waste Turbidity (NTU/Lowest Monthly % < 0.3 NTU) Lake Sediment; soil runoff	0	0	0 per month	none	In Compliance	Monthly
	100% below 0.3 NTU	none	0.3 NTU	100%	In Compliance	Monthly
Turbidity (NTU/Highest Single Measurement) Lake Sediment; soil runoff	0.052	none	1 NTU	0.02 - 0.052	In Compliance	Monthly
	INORGANIC	CONTAMI	NANTS			
Nitrate as nitrogen (ppm) Runoff from fertilizer; leaching from septic; natural erosion	0.4	10	10	Single Sample	In Compliance	5/15/2019
Barium (ppm) Discharge of drilling wastes & metal refineries; natural erosion	0.023	2	2	Single Sample	In Compliance	7/10/2019
Iron (ppm) Erosion of naturally occurring deposits	0.1	none	1.0	Single Sample	In Compliance	7/10/2019
Copper (ppm) Corrosion of household plumbing systems; natural erosion	0.043 90 th Percentile	1.3	AL = 1.3	O Sites over AL	In Compliance	09/2018
Lead (ppb) Corrosion of household plumbing systems; natural erosion	0 90 th Percentile	0	AL = 15	0 Sites over AL	In Compliance	09/2018
DIS	INFECTANT/DISII	NFECTION I	BY-PRODUC	TS		
HAA5 Haloacetic Acids (ppb) By-product of drinking water disinfection	4	None	60	3.89 - 3.89	In Compliance	8/5/2019
TTHMs Total Trihalomethanes (ppb) By-product of drinking water disinfection	33	None	80	33.1 – 33.1	In Compliance	8/5/2019
Bromate (ppb) By-product of drinking water disinfection	2	0	10	0-4	In Compliance	7/10/2019 Quarterly
Chlorine (ppm) Drinking water disinfectant	0.4	4	4	0.4 - 0.41212	In Compliance	12/2019 Monthly
TOC (Total Organic Carbon)	The % of TOC res	moval was m	neasured each	n month & the syst	tem met all remov	al requirements
	STATE REGULAT	ED CONTAI	MINANTS			
Fluoride (ppm) Water additive which promotes strong teeth; natural erosion	0.6	4	4	0.6 – 0.7	In Compliance	10/1/2019 Monthly
Sodium (ppm) Erosion of naturally occurring deposits; water softener	9.1	none	none	Single Sample	In Compliance	7/10/2019
	RADIOACTIVE	CONTAMIN	NANTS			
Combined Radium 226/228 (pCi/L) Decay of natural and man-made deposits	0.92	0	5	Single Sample	In Compliance	4/13/15
Gross Alpha Emitters (pCi/L) Erosion of natural deposits	0.39	0	15	Single Sample	In Compliance	4/13/15

sampled by CLCJAWA. The values shown in the level detected column are those used by the EPA to determine compliance with drinking water standards. Because each compound is regulated differently, this value may be a running average, a 90th percentile or a maximum single value. The sample data column indicates the date when the sample was collected. When more than one sample is collected, this column shows the date of the maximum value.

Units of Measure:

ppm: parts per million or milligrams per liter ppb: parts per billion or micrograms per liter

pCi/: picocuries per liter used to measure

radioactivit

NTU: nephelopmetric turbidity unit that measures clarity in drinking water

Definition of Terms

Action Level (AL): level that triggers special treatment or other required action by water plants Maximum Contaminant Level (MCL): the highest level of contaminant that is allowed in drinking water.

Maximum Contaminant Level Goal (MCGL): level of a contaminant below which there is no known or expected health risk

Treatment Technique (TT): required process used to reduce contaminants in drinking water.