Village of LaGrange Drinking Water Consumer Confidence Report For2017

your drinking water and water system contacts. water. Included within this report is general health information, water quality test results, how to participate in decisions concerning The Village of LaGrange has prepared the following report to provide information to you, the consumer, on the quality of our drinking

Source Water Information.

pumped to your tap. The Avon Lake Water Filtration facility is staffed around the clock with approximately are two separate pump stations and three intake cribs to insure their ability to pump from this endless source of quality raw water. The filtration. Once the turbidity is removed the water is treated with chlorine for disinfection and fluoride for dental health prior to being raw water is then treated with alum to aid in the removal of turbidity (dirt) after which it goes through flocculation, sedimentation and receives its drinking water from the City of Avon Lake. The Avon Lake water treatment facility draws its water from Lake Erie. There The Village of LaGrange receives its drinking water from Rural Lorain County Water Authority. Rural Lorain County Water Authority 150 tests run on the drinking water every day and over 50,000 each year.

detailed information is provided in the Drinking Water Source Assessment report, which can be obtained by calling Greg Yuronich analysis and emergency operation plan that undetected contamination would be minimized and that no water quality violations which it determined there was no direct source of pollution. Ohio EPA further determined that with Avon Lake's source water capabilities of Lake Erie, Ohio EPA evaluated Avon Lake's contamination potential based on a Critical Assessment Zone (CAZ) for Source water assessment and its availability- A source water assessment was conducted by the Ohio EPA for the City of Avon have been recorded. The City of Avon Lake's public water system treats the water to meet drinking water quality standards assessments, in Ohio all surface waters are considered to be susceptible to contamination. Due to the vast size and dilution Implementing measures to protect Lake Erie and the Black River can further decrease the potential for water quality impacts. More Lake water system in 2002. The City uses surface water drawn from an intake in Lake Erie. For the purposes of source water

What are sources of contamination to drinking water?

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 The sources of drinking water both tap water and bottled water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As

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;

- runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water
- <u>0</u> Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses
- Œ processes and petroleum production, and can also come from gas stations, urban Strom water runoff, and septic systems Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industria
- $\widehat{\mathbb{D}}$ Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining

protection for public health. provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same In order to ensure that tap water is safe to drink, USEPA prescribes regulations which limit the amount of certain contaminants in water

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 Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The

About yourdrinking water.

concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old theVillage of LaGrangewater supply. The Ohio EPA requires us to monitor for some contaminants less than once per year because the TTHM/HAA5; during 2017. Samples were collected for a total of 80 different contaminants most of which were not detected in The EPA requires regular sampling to ensure drinking water safety. The Village of LaGrange conducted sampling for bacteria

Who needsto take special precautions?

about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by other immune system disorders, some elderly, and infants can be particularly at risk from infection. These people should seek advice such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Additional Information for Lead

minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water 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 drinking water is primarily from materials and components associated with service lines and home plumbing. The Village of LaGrange is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in

tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available fromthe Safe Drinking Water Hotline at 800-426-4791or at http://www.epa.gov/safewater/lead

What is not in Your Drinking Water?

presence of 45 other contaminants, which do not appear in any detectable amounts The Village of LaGrange drinking water, in addition to the contaminants listed in the table (located inside this brochure), is tested for the

How hard is your water?

of pipes and household appliances and can result in toxic materials, such as lead and copper, being dissolved indrinking water. Water hardness is expressed as a concentration of calcium carbonate, the concentration in your water averaged 120 mg/l in 2016. The water, some consumers may seek softer water. Excessively soft water can cause corrosion in pipes, which can shorten the service life historical objection to hardness has been its effect on soap. Although modern detergents counteract many of the problems of hard

Soft	Moderately Hard	Hard	Very Hard
0 - 75 mg/l	75 - 150 mg/l	150 - 300 mg/l	Over 300 mg/l
CaCO3	CaCO3	CaCO3	CaCO3

Source water monitoring

commonly used filtration methods cannot guarantee 100% removal. Monitoring source water indicates the presence of these system size and filtration type. The Avon Lake water plant has always monitored Lake Erie water for E. coli and turbidity as part of the cause disease and it may be spread through means other than drinking water. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease organisms. Current test methods do not enable us to determine if the organisms are dead or if they are capable of causing disease microbial pathogen found in surface water throughout the United States. Although filtration removes cryptosporidium the most detected in 1 sample of 12 collected from the raw water from Lake Erie. It was not detected in the finished water. Cryptosporidium is a treatment process. Avon Lake Water Filtration Plant monitored for cryptosporidium in the source water in 2016. Cryptosporidium was However, immune-compromised people are at greater risk of developing life-threatening illness. We encourage immune-compromised The USEPA has required public water systems that use surface water to monitor for Cryptosporidium, E. coli and turbidity based on individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to

How can you learn more?

Please contact Mr. Greg Yuronich - Avon Lake Regional Water, Water Plant Manager at 440-933-3229 or Ted Popiel – Avon Lake Regional Water, Lab Manager, 440-933-3229

Mailing Address: Avon Lake Regional Water, 201 Miller Rd, Avon Lake, Oh 44012 Physical Address: Avon Lake Filtration Plant, 33370 lake Road, Avon Lake, OH 44012

How do I participate in decisions concerning my drinking water?

Robert Hulec, Superintendent at 355-6045 for additional information. Please contact Mr. Walter Sukey, Village Manager at 355-5555 or

In addition, the public is welcome to attend the regularly scheduled meeting of the LaGrange Village Council on the second and fourth Thursday of each month at 7:30PM at the LaGrange Village Hall,355 South Center Street.

Water Conservation Tips

cost and no-cost ways toconserve water. Small changes can make a big difference – try one today and soon it willbecome second nature.

Take short showers - a 5 minute shower uses 4 to 5 gallons of water compared to up to 50gallons for a bath. Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-

- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month
- Use a water-efficient showerhead. They're inexpensive, easy to install, and can save youup to 750 gallons a month
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- a leak, place a few drops of food coloring inthe tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, · Water plants only when necessary.· Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a fewminutes to replace. To check your toilet for more efficient model can save up to 1,000 gallons amonth.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil canabsorb it and during the cooler parts of the day to reduce evaporation.
- Teach your kids about water conservation to ensure a future generation that uses waterwisely. Make it a family effort to reduce next month's water bill
- Visit www.epa.gov/watersense for more information.

LaGrange

Table of Detected Contaminants in 2017

⁵ Gross Alpha (pC <i>il</i>) 0 15 7.94 NA	Radiological Contaminaris (Alpha & Bea)	³ Chlorine (ppm) 4 4 1.40 1.1-1.5	Residual Disinfectants	*Total Trihalomethanes(ppb) NA 80 58.6 32.9-75.7	*Haloacetic Acids (ppb) NA 60 26.0 16.8-38.3	¹ Volatile Organic Contaminants.	Nitrate (ppm) 10 10 1.02 0.11-1.02	Fluoride (ppm) 4 4 1.02 0.14-1.31	90th percent sample result Zero out of thirty samples was found to have lead levels in excess of the lead action level of 15 ppb.	Lead (ppb) 0 AL=15 <3.0 NA	90th percent sample result Zero out of thirty samples was found to have coppe	Copper (ppm) 1.3 AL=1.3 0.05 NA		³ Barium (ppm) 2 2 0.029 0.029	linorganic Contaminants	² Total Organic Carbon (ppm) NA TT 1.11 1.11-1.72	meeting standard)	Turbidity (% samples NA TT 100.0% 100%	¹ Turbidity (NTU) NA TT 0.25 0.03-0.25		Micronical Contaminants	(Units) Found Detections
NO 2015		NO 2016-17		NO 2016-17	NO 2016-17		NO 2017	NO 2017	d levels in exce	NO 2016	_	NO 2016		NO 2017		NO 2017		NO 2017	NO 2017	SET OF SECURITY SECUR		Sampled
Erosion of natural deposits		 X:			By-product of drinking water disinfection		Natural deposits, fertilizers, sewage	Water additive which promotes strong teeth	ess of the lead action level of 15 ppb.	Corrosion of household plumbing	levels in excess of the copper action level of 1.3 ppm.	Corrosion of household plumbing	metal refinenes; Erosion of natural deposits.	Discharge of drilling wastes; Discharge from		Naturally present in the environment			Soil Runoff			

about lead in your water, you may wish to have your water tested. A list of laboratories certified in the State of Ohio to test for lead may be found at potential for lead exposure by flushing your tap for thirty seconds to two minutes before using water for drinking or cooking. If you are concerned cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the from materials and components associated with service lines and home plumbing. Avon Lake is responsible for providing high quality drinking water, but If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily minimize exposure is available from the Safe Drinking Water Hotline at 800-426-4719 or at http://www.epa.gov/safewater/lead http://www.epa.ohio.gov/ddagw/labcert.aspx, or by calling 614-644-2752. Information on lead in drinking water, testing methods, and steps you take to

LaGrange has a current, unconditioned license to operate our water system from the Ohio EPA

¹Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. The turbidity limit set by the EPA

turbidity result for 2017 was 0.25 NTU and lowest monthly percentage of samples meeting the turbidity limits was 100% is 0.3 NTU in 95% of the daily samples and shall not exceed 1 NTU at any time. As reported above the Avon Lake WTP highest recorded

²The value reported under "Level Found" for Total Organic Carbon (TOC) is the lowest ratio between percentage of TOC actually removed to the percentage of parameters. A value of at least one (1) indicates that the water system is in compliance with TOC removal requirements TOC required to be removed. This removal ratio is calculated as the ratio between the actual TOC removal and the TOC rule removal requirements and other

These contaminants level found is the highest compliance value based on a running annual average. This average includes results from 2016 & 2017

with organic matter naturally occurring in the source water. Disinfection byproducts are grouped into two categories, Total Trihalomethanes (TTHM) and * Disinfection byproducts are the result of providing continuous disinfection of your drinking water and form when disinfectants combine Haloacetic Acids (HAA5). USEPA sets standards for controlling the levels of disinfectants and disinfectant byproducts in drinking water, including both TTHMs and HAA5s."

⁵Gross Alpha particles - Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

DEFINITIONS

- AL = Action level The concentration of a contaminant that, if exceeded, triggers a treatment or other requirement that a water system must follow
- Contaminant Any physical, chemical, biological, or radiological substance or matter in water.
- ယ MCL = Maximum Contaminant Level - The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.
- 4 MCLG = Maximum Contaminant Level Goal - The level of contaminant in drinking water below which there is no known or expected risk to health MCLG's allow for a margin of safety.
- **σ** σ MRDL = Maximum Residual Disinfectant Level
- MRDLG = Maximum Residual Disinfectant Level Goal
- 7 NA = not applicable
- œ ND = Not Detected
- 9 NTU = Nephelometric Turbidity Units
- ರ Parts per billion (ppb) or Micrograms per Liter (ug/L) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.
- 11. Parts per million (ppm) or Milligrams per Liter (mg/L) are units of measure for concentration of a contaminant A part per million corresponds to one second in a little over 11.5 days
- pCi/l = picoCuries per liter (A common measure of radioactivity)
- 13. TOC = Total Organic Carbon has no health effects. However, TOC provides a medium when the water is disinfected for the formation of disinfection byproducts. TOC removal early in the treatment plant is required.
- 14. TT = Treatment technique A required process intended to reduce the level of a contaminant in drinking water. For example we add lime to increase the pH of our finished water in order to maintain compliance with the lead and copper rule
- 5
- <u></u> WTP = Water Treatment Plant
- "<" Symbol = A symbol that means 'less than'. A result of '<3.0 ppb means that the lowest detectable level is 3.0ppb and the contaminant was not

detected in those samples.