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Consumer Confidence Report 2019

(Testing Results are from 2018)

OVERVIEW

We are pleased to present you with this year's Annual Quality Water Report. This report is designed to inform you about the quality of water and services that we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring your quality of water.

The Water Department routinely monitors for constituents in your drinking water according to Federal and State laws. The table in this report shows the results of our monitoring for the period of January 1st thru December 31st, 2018. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It is important to remember that the presence of these constituents do not necessarily pose 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 at 1-800-426-4791.

Water is the most valuable resource we have. The Waldwick Water Department works hard to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

Some people may be more vulnerable to contaminants in drinking water 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 about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

If you have any questions about this report or any other questions concerning your water utility, please contact the Water Department Supervisor Neil Moses at 201-652-5900. We want our valued customers to be informed about their water utility and its water quality. If you want to learn more, please attend any of our regularly scheduled Borough Council meetings at the Waldwick Administration Building at 63 Franklin Turnpike. Meetings are held on the second and fourth Tuesdays of each month at 7:30 p.m. Another great way of monitoring and keeping track of your water system is to log onto "Water Watch" on the state website. It has water sampling schedules as well as a host of other information specific to this system.

DEFINITIONS

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we have provided the following definitions:

Non-Detects (ND) - Laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligrams per liter (mg/l) - One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/l) - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Picocuries per liter (pCi/L) - Picocuries per liter is a measure of the radioactivity in water.

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

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level Goal (MCLG) - The “Goal” is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level (MCL) - The “Maximum Allowed” is 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.

Secondary Maximum Contaminant Level (SMCL) - Federal drinking water measurements for substances that do not have an impact on health. These reflect aesthetic qualities such as odor, taste or appearance. Secondary standards are recommendations, not mandates.

Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Goal (MRDLG) - 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 contamination.

MCL’s are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, is more than a year old.

Regulated Disinfectants	Level Detected	MRDL	MRDLG
Chlorine	Average = 0.18	4.0 ppm	4.0 ppm

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. The Waldwick Water Department is responsible for providing high quality drinking water, but can not control the variety of materials used in plumbing components. 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 and cooking. If you are concerned about lead in your water, you may wish to have your water tested (privately). Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water hotline (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

Sodium

We have one well (*Well #2*) that continually tests high for Sodium. The other wells and points throughout the distribution system, have been sampled in the past with sodium levels below the “MCL” set by the EPA. When the water is mixed and combined with the other wells that were not high, the sodium level is within the normal range. The one well that tested high for sodium is constantly being sampled for Sodium more frequently as directed by EPA. For healthy individuals the sodium intake from water is not important, because a much greater amount of sodium comes from salt in the diet. However, sodium levels above the Recommended Upper Limit (RUL) may be a concern to individuals on a high sodium restricted diet.

Nitrate

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

Arsenic

While your drinking water meets EPA’s standard for arsenic, it does contain low levels. EPA’s standard balances the current understanding of possible health effects against the cost of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause skin cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

SOME QUICK FACTS ABOUT OUR “LIQUID ASSET”

- Only 1/3 of people on earth have safe and reliable drinking water available to them on a daily basis!
- At a fraction of a penny per gallon, tap water provides safety, convenience and freedom.
- Less than 1% of the average person’s total personal income is spent on water and wastewater services, but it is something we use all day long!
- An 8oz glass of water can be refilled approximately 15,000 times for the same price as a six pack of soda and it is a lot healthier for you!
- Your water bill pays for a lot more than simply water. You get sophisticated water treatment, frequent testing and monitoring, and a vast underground infrastructure that delivers safe, plentiful water right at your tap.
- Studies show that bottled water is no purer than tap water, yet bottled water costs about 1,900% more.
- The water you get from your tap is subject to more testing and stricter qualities/standards than bottled water.
- American water utilities monitor for more than 100 contaminants and must meet close to 90 regulations for water safety and quality.
- Our water system as well as all community water supplies are tested every day, far more frequent testing than for bottled water.

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 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 the 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, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes 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 water supplied by the Waldwick Water Department, as in all “ground water” systems, tends to be very hard. This is a characteristic of pumping water out of the ground as opposed to pumping water from a lake or reservoir “surface water” systems, and are more vulnerable to contamination by outside sources. The only way to help to change the hardness of the water supplied to you, is to install a water softener as some of our customers have done in the past.

The water that we supply is under the guidelines of the EPA, and is more rigid than bottled water you may purchase at the store. Bottled water is under the guidelines of the FDA and is not as rigid as the guidelines of the EPA.

PLEASE HELP TO KEEP WATCH OVER OUR VALUABLE RESOURCE. IF YOU SHOULD SEE ANYONE USING A FIRE HYDRANT THAT IS NOT AN OFFICIAL BOROUGH VEHICLE OR A FIRE TRUCK, OR IF YOU ARE NOT SURE, PLEASE DON'T HESITATE IN CALLING THE POLICE DEPARTMENT. HELP US PROTECT OUR RESOURCE. YOU ARE OUR EYES OUT IN THE FIELD!

Throughout the year, Waldwick Water Department customers may occasionally experience discolored or cloudy water, some of the causes of this could be:

- Fire Hydrant usage due to Fire Department activity
- Fire Hydrant flushing(*conducted yearly, half of system in the Spring and half of system in Fall*)
- Water main breaks or shut downs due to leaks

If you experience this, let the water run before you use it. If it continues, please call the Waldwick Water Department at (201) 652-5300 ext.240 during regular business hours 8:30am to 4pm, or after hours contact the Waldwick Police Department at (201) 652-5700.

The following table is a list of sampling results from the year 2018. As directed by the EPA and/or DEP, some years we are required to sample for more or less contaminants than other years.

C.C.R. Water Sampling Results For 2019 (Data is from 2018)

Contaminant	Violation Y/N	MCL	Unit of Measurement	Level Detected	Range	Likely Source of Contamination
Copper	NO	1.3	mg/L	0.103	.05-.269	Corrosion of household plumbing systems, Erosion of natural deposits, Leaching from wood preservatives
Haloacetic Acids (Haa5)						
Total Haa5	NO	60	ug/L	1.53	1.38-1.68	Byproduct of drinking water disinfection
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Arsenic	NO	5	ug/l	1.75	1.00-3.18	Naturally present in the environment
Barium	NO	2	mg/L	0.395	.284-.524	Discharge of drilling wastes, discharge from metal refineries
Chromium	NO	100	ug/L	7	n/a	Discharge from steel and pulp mills. Erosion of natural deposits
Nickel	NO	100	ug/L	1	n/a	Naturally present in the environment
Sulfate	NO	250	mg/L	21.9	15.5-34	Natural soil deposits
Lead	NO	15	ug/L	3.48	2-6.55	Corrosion of household plumbing systems
Nitrates	NO	10,000	ug/L	3022	1800-3100	Runoff from fertilizer use, Leaching from septic tanks, sewage, erosion of natural deposits
Nitrites	NO	1,000	ug/L	100	n/a	Runoff from fertilizer use, Leaching from septic tanks, sewage, erosion of natural deposits
Radioactive Contaminants						
Gross Alpha	NO	15	pCi/L	2.682	n/a	Natural soil deposits, Roadway de-icing
Combined Radium 228 & 226	NO	5	pCi/L	0.618	n/a	
Uranium	NO	30	ug/L	2.3	n/a	
Sodium						
Well # 2 & dist. System	NO	50	ppm	136	41-264	
Secondary Contaminants						
Alkalinity	n/a	n/a	mg/L	156.6	147-172	Naturally present in the environment
Chloride	NO	250	mg/L	153	121-198	Natural soil deposits
Total Hardness	n/a	50-250	mg/L	258.6	198-356	Naturally present in the environment
Manganese	NO	0.05	mg/L	0.04	n/a	Natural soil deposits
pH level	NO	6.5-8.5	su	7.32	7.05-7.63	Natural soil deposits
Silver	NO	0.1	mg/L	0.08	n/a	Naturally present in the environment
Total Dissolved Solids	NO	500	mg/L	452.6	483-503	Natural soil deposits
Zinc	NO	5	mg/L	0.25	n/a	Natural soil deposits
Total Coliforms (Bacteria)	NO	0	n/a	none	n/a	Naturally present in the environment
Trihalomethanes (THM)						
Total THM(s)	NO	80	ug/L	22.8	19.7-25.9	Byproduct of drinking water disinfection
Volatile Organic Compounds (VOC)	NO	n/a	ug/L	undetected	n/a	Naturally present in the environment

The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos and synthetic organic chemicals. Our system received monitoring waivers for both of these types of contaminants.

BACKGROUND

Our six wells draw their water from the Brunswick Aquifer. Our wells range in depth from 170 to 250 feet deep. These wells are owned and maintained by the Borough of Waldwick. We are also not connected to any other systems or towns so we can regulate these wells easier than a large water company. This also means that when other towns or companies have water restrictions we do not, unless mandated by DEP.

The New Jersey Department of Environmental Protection (NJDEP) has completed and issued the Source Water Assessment Report and Summary for this public water system, which is available at www.state.nj.us/dep/swap or by contacting NJDEP's Bureau of Safe Drinking Water at (609) 292-5550. You may also contact your public water system to obtain information regarding your water system's Source Water Assessment. The water system's source water susceptibility ratings and a list of potential contaminant sources is attached.

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 the water poses a health risk.

Notice of Non-Compliance for Escherichia coli (E coli) Monitoring

The Waldwick Water Department is required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the period 7/1/18 to 7/31/18 we did not complete all monitoring or testing for Escherichia coli (E coli), and therefore cannot be sure of the quality of the drinking water during that time. This is not an emergency, no population is currently at risk, and no action needs to be taken. If it had been an emergency, you would have been notified immediately. Coliform bacteria are generally not harmful themselves. Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Since 8/1/18 all required monitoring for specific contaminants has been completed. 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. Any questions about this notice can be directed to the Waldwick Water Department at (201) 652-5300

PFOA

On April 1, 2019, the NJDEP proposed MCLs of 14 parts per trillion (PPT) for perfluorooctanic acid (PFOA) and 13 ppt for perfluorooctanesulfonic acid (PFOS) these substances are man-made and used in industrial and commercial applications. **PFOA** was used as a processing aid in the manufacture of fluoropolymers used in non-stick cookware and other products, as well as other commercial and industrial uses based on its resistance to harsh chemicals and high temperatures. PFOS is used in metal plating and finishing and various commercial products. Both PFOA and PFOS were previously used as major ingredients in aqueous film forming foams for firefighting and training, and both compounds are found in consumer products such as stain resistant coatings for upholstery and carpets, water resistant outdoor clothing, and grease proof food packaging. Exposure to PFOA is associated with detrimental health effects including increased cholesterol, liver damage, decreased vaccine response, decreased birth weight, and testicular and kidney cancer. Exposure to PFOS is associated with decreased vaccine response and increased cholesterol. The Waldwick Water Department is required to test for PFOA and PFOS quarterly, which began with the quarter beginning January 1, 2019. The PFOA and PFOS results from multiple sampling sites are greater than the NJDEP's proposed MCLs for PFOA and PFOS. The Waldwick Water Department is working to meet the NJDEP's recommendations for locations that exceed the proposed MCLs.

WATER CONSERVATION TIPS *(PLEASE READ SO WE ALL CAN CONSERVE OUR PRECIOUS WATER)*

- Do not let the water run while shaving or brushing teeth.
- Take short showers instead of baths, even try not running water while soaping up or shampooing.
- Never use your toilet as a wastebasket.
- Keep drinking water in the refrigerator instead of letting the faucet run until the water is cool.
- Wash fruits and vegetables in a basin. Use a vegetable brush.
- Do not use water to defrost frozen foods; thaw in the refrigerator overnight.
- Scrape rather than rinse dishes before loading into the dishwasher; wash only full loads.
- Add food waste to your compost pile instead of using the garbage disposal.
- Wash only full loads of laundry or use the appropriate water level or load size selection on the washing machine.
- Consider purchasing high-efficiency toilets or place a plastic container filled with water in the tank of your conventional toilet.
- Install low-flow faucet aerators and showerheads.
- Consider purchasing a high efficiency washing machine that can save over 50% in laundry water as well as less energy use.
- Repair any and all leaks as soon as possible. A toilet can waste over 200 gallons per day. To detect leaks in toilet, add food coloring to the tank water. If the colored water appears in the bowl the toilet is leaking.
- Water the lawn or garden during the coolest part of the day (early morning is best). Do not water on windy days.
- Water trees and shrubs, which have deep root systems longer and less frequently than shallow-rooted plants that require smaller amounts of water more often.
- Set sprinklers to water lawn or garden – not the sidewalk or street.
- Use soaker hoses or trickle irrigation systems for trees and shrubs.
- Install moisture or rain sensors on sprinkler systems.
- Use mulch around shrubs and garden plants to reduce evaporation.
- Remove thatch and aerate turf to encourage movement of water to the root zone.
- Raise your lawn mower cutting height –longer grass blades help shade each other, reduce evaporation and inhibit weed growth.
- Minimize or eliminate fertilizing, which promotes new growth needing additional watering.
- When there are water restrictions, use the water from dehumidifiers or air condition condensers to water plants or gardens.
- Sweep driveways, sidewalks and steps instead of hosing them off.
- Get your car washed at a car wash instead of doing it yourself; most of them now recycle their water.
- Avoid purchasing recreational water toys that require a constant stream of water.
- Use a pool cover to reduce evaporation when pool is not being used.
- Do not install or use ornamental water features unless they recycle the water.
- And the number one use of our most valuable resource is: **LANDSCAPE IRRIGATION** in the growing season can account for **75 %** of your water use.