ANNUAL WATER OUALITY REPORT

Reporting Year 2022



Presented By
North Springs
Improvement District



Our Mission Continues

We are pleased to present our annual water quality report covering all testing performed between January 1 and December 31, 2022. Over the years, we have dedicated ourselves to producing drinking water that meets all state and federal standards. We continually strive to adopt new methods for delivering the best-quality drinking water to you. As new challenges to drinking water safety emerge, we remain vigilant in meeting the goals of source water protection, water conservation, and community education while continuing to serve the needs of all our water users. The North Springs Improvement District (NSID) received an award from the Florida Department of Environmental Protection (FDEP) in 2022 for outstanding plant operations excellence and professionalism. Please remember that we are always available for any questions or concerns about your water.

Substances That Could Be in 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 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and Herbicides may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff, and septic systems.

Radioactive Contaminants can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) prescribes regulations, which limit the number of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the

same protection for public health.

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. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guide-

lines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contam-

inants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa. gov/drink/hotline.



In 2022 FDEP performed a source water assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are two potential sources of contamination identified for this system, with low susceptibility levels. The assessment results are available from the FDEP Source Water Assessment and Protection Program at https://prodapps.dep.state.fl.us/swapp, or the report can be obtained by calling the NSID laboratory at (954) 752-0400.

QUESTIONS?

For more information about this report, or for any questions relating to your drinking water, please call the Water Department at (954) 752-0400 or email rodc@nsidfl.gov. Visit us online at www.nsidfl.gov.

Lead in Home Plumbing

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. We are responsible for providing high-quality drinking water, but we cannot 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 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, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at (800) 426-4791 or at www.epa.gov/safewater/lead.

Where Does My Water Come From?

In 2022 1.6 billion gallons of water was distributed to the customers of NSID. The water sources for the district are the Biscayne and Floridan Aquifers, which are underground geological formations. The aquifers have been a reliable source of high-quality water since the early 1920s. Water from the aquifers is withdrawn and pumped to the water treatment plant by 11 raw water wells located within the district. It is then treated by our new reverse osmosis water treatment plant, which improves the taste, odor, and appearance of water by removing contaminants. The water is then disinfected with chlorine and ammonia for bacteria removal. Fluoride is added as an aid in preventing tooth decay.



Information on the Internet

The U.S. EPA (https://goo.gl/TFAMKc) and the Centers for Disease Control and Prevention (www. cdc.gov) Web sites provide a substantial amount of information on many issues relating to water resources, water conservation and public health. Also, the Florida Department of Environmental Protection has a Web site (https://goo.gl/s94yeg) that provides complete and current information on water issues in Florida, including valuable information about our watershed.

What Are PFAS?

Per- and polyfluoroalkyl substances (PFAS) are a group of manufactured chemicals used worldwide since the 1950s to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. During production and use, PFAS can migrate into the soil, water, and air. Most PFAS do not break down; they remain in the environment, ultimately finding their way into drinking water. Because of their widespread use and their persistence in the environment, PFAS are found all over the world at low levels. Some PFAS can build up in people and animals with repeated exposure over time.

The most commonly studied PFAS are perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS). PFOA and PFOS have been phased out of production and use in the United States, but other countries may still manufacture and use them.

Some products that may contain PFAS include:

- Some grease-resistant paper, fast food containers/ wrappers, microwave popcorn bags, pizza boxes
- · Nonstick cookware
- Stain-resistant coatings used on carpets, upholstery, and other fabrics
- Water-resistant clothing
- Personal care products (shampoo, dental floss) and cosmetics (nail polish, eye makeup)
- Cleaning products
- Paints, varnishes, and sealants

Even though recent efforts to remove PFAS have reduced the likelihood of exposure, some products may still contain them. If you have questions or concerns about products you use in your home, contact the Consumer Product Safety Commission at (800) 638-2772. For a more detailed discussion on PFAS, please visit http://bit.ly/3Z5AMm8.



What type of container is best for storing water?

Consumer Reports has consistently advised that glass or BPA-free plastics such as polyethylene are the safest choices. To be on the safe side, do not use any container with markings on the recycle symbol showing 7PC (that's code for BPA). You could also consider using stainless steel or aluminum with BPA-free liners.

How long can I store drinking water?

The disinfectant in drinking water will eventually dissipate, even in a closed container. If that container housed bacteria prior to filling up with the tap water, the bacteria may continue to grow once the disinfectant has dissipated. Some experts believe that water can be stored for up to six months before needing to be replaced. Refrigeration will help slow bacterial growth.

How long does it take a water supplier to produce one glass of treated drinking water?

It can take up to 45 minutes to produce a single glass of drinking water.

How many community water systems are there in the U.S.?

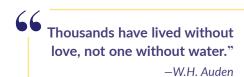
About 53,000 public water systems across the United States process 34 billion gallons of water per day for home and commercial use. Eighty-five percent of the population is served by these systems.

Which household activity wastes the most water?

Most people would say the majority of water use comes from showering or washing dishes; however, toilet flushing is by far the largest single use of water in a home, accounting for 40 percent of total water use. Toilets use about 4 to 6 gallons per flush, so consider an ultra-low-flow (ULF) toilet, which requires only 1.5 gallons.

Think Before You Flush!

Flushing unused or expired medicines can be harmful to your drinking water. Properly disposing of unused or expired medication helps protect you and the environment. Keep medications out of our waterways by disposing responsibly. To find a convenient drop-off location near you, please visit https://bit.ly/3IeRyXy.



Community Participation

The Board of Supervisors of NSID will hold their meetings for the fiscal year 2023 on the first Wednesday of each month at 5:00 p.m. in the district office, 9700 NW 52nd Street, Coral Springs.

Water Conservation Tips

You can play a role in conserving water and saving yourself money in the process by becoming conscious of the amount of water your household is using and by looking for ways to use less whenever you can. It is not hard to conserve water. Here are a few tips:

- Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- Turn off the tap when brushing your teeth.
- Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.
- Check your toilets for leaks by putting a few drops of food coloring in the tank. Watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from an invisible toilet leak. Fix it and you save more than 30,000 gallons a year.
- Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.



Test Results

Our water is monitored for many different kinds of substances on a very strict sampling schedule, and the water we deliver must meet specific health standards. Here, we only show those substances that were detected in our water (a complete list of all our analytical results is available upon request). Remember that detecting a substance does not mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels.

The state recommends monitoring for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

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Inorganic Contaminants												
CONTAMINANT AND UNIT OF MEASUREMENT	DATES F SAMPLI (MO./Y	ING	MCL VIOLATION (YES/NO)			LEVEL DETECTED		MCLG	MCL	LIKELY SOURCE OF CONTAMINATION		
Barium (ppm)	2022	2	No		0.	0.00214		2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits		
Fluoride (ppm)	04/25/2	04/25/2022		No		0.602		4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories; water additive which promotes strong teeth when a the optimum level of 0.7 ppm		
Sodium (ppm)	04/25/2	2022	No			12.7		NA	160	Saltwater intrusion; leaching from soil		
STAGE 1 DISINFECTAN	TS AND DIS	NFECTI	ON B	Y-PRODUC	TS							
CONTAMINANT AND UNIT OF MEASUREMENT	DATES OF SAMPLING (MO./YR.)	MO VIOLA (YES)	TION	LEVEL DETECTED	RANGE OF RESULTS	MCLG OR [MRDLG]	MCL (LY SOU	URCE OF CONTAMINATION		
Chloramines (ppm) 01/22-12/22			No 3.59		1.8–4.0	[4]	[4.0	o] Wa	Water additive used to control microbes			
STAGE 2 DISINFECTAN	TS AND DIS	NFECTI	ON B	Y-PRODUC	TS							
CONTAMINANT AND UNIT OF	F MEASUREMEN	IT	SA		MCL /IOLATION (YES/NO)	LEVEL DETECTED	RANGE RESUL		G MC	L LIKELY SOURCE OF CONTAMINATION		
Haloacetic Acids (five) []	HAA5]–Stage	2 (ppb)	06/	21/2022	No	3.2	3.1–3	.2 NA	60	By-product of drinking water disinfection		
TTHM [total trihalomet	thanes]–Stage	2 (ppb)	06/	21/2022	No	1.2	0.88-	.2 NA	80	By-product of drinking water disinfection		
Lead and Copper (Tap water s	amples were col	lected fron	ı sites	throughout the	community)						
		AMPLING EXCEEDANCE PER		•	, оошинани,	,						
CONTAMINANT AND UNIT OF MEASUREMENT	DATES OF SAMPLING (MO./YR.)	EXCEEDA		90TH PERCENTILI RESULT	NO. OF	SAMPLING XCEEDING HE AL		AL ACTION LEVEL) I	LIKELY S	SOURCE OF CONTAMINATION		
	SAMPLING	EXCEEDA	10)	90TH PERCENTILI	NO. OF	SAMPLING XCEEDING		ACTION LEVEL) I	Corrosi			
OF MEASUREMENT Copper [tap water]	SAMPLING (MO./YR.)	EXCEED/ (YES/N	10)	90TH PERCENTILI RESULT	NO. OF	SAMPLING EXCEEDING HE AL	MCLG	ACTION LEVEL) I	Corrosi natural Corrosi	on of household plumbing systems; erosion of deposits; leaching from wood preservatives		
OF MEASUREMENT Copper [tap water] (ppm) Lead [tap water]	SAMPLING (MO./YR.) 09/9/2021 09/9/2021	(YES/N	10)	90TH PERCENTILI RESULT 0.06490	NO. OF	SAMPLING XCEEDING HE AL	MCLG 1.3	ACTION LEVEL) I	Corrosi natural Corrosi	on of household plumbing systems; erosion of deposits; leaching from wood preservatives on of household plumbing systems; erosion of		
OF MEASUREMENT Copper [tap water] (ppm) Lead [tap water] (ppb)	SAMPLING (MO./YR.) 09/9/2021 09/9/2021 AMINANTS	(YES/N	SAMPLI	90TH PERCENTILI RESULT 0.06490 2.0	NO. OF	SAMPLING XCEEDING HE AL	1.3 0	ACTION LEVEL) I	Corrosi natural Corrosi natural	on of household plumbing systems; erosion of deposits; leaching from wood preservatives on of household plumbing systems; erosion of		
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Definitions

90th %ile: The levels reported for lead and copper represent the 90th percentile of the total number of sites tested. The 90th percentile is equal to or greater than 90% of our lead and copper detections.

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

LRAA (Locational Running Annual Average): The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

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.

MCLG (Maximum Contaminant Level Goal): 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.

MRDL (Maximum Residual Disinfectant Level): 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.

MRDLG (Maximum Residual Disinfectant Level Goal): 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.

NA: Not applicable.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).