ANNUALWATER QUALITY

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Water Testing Performed in 2014

Presented By

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Our Mission Continues

We are proud to present once again our annual water quality report covering all testing performed between January 1 and December 31, 2014. Most notably, last year marked the 40th anniversary of the Safe Drinking Water Act (SDWA). This rule was created to protect public health by regulating the nation's drinking water supply. We celebrate this milestone as we continue to manage our water system with a mission to deliver the best quality drinking water. By striving to meet the requirements of SDWA, we are ensuring a future of healthy, clean drinking water for years to come.

Please let us know if you ever have any questions or concerns about your water.

Important Health Information

ome 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) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa. gov/drink/hotline.



Community Participation

You are invited to participate in our public forum and voice your concerns about your drinking water. We meet the first Wednesday of each month beginning at 5:00 p.m. at City Hall Council Chambers, 600 West Blue Heron Blvd., Riviera Beach, FL.

Substances That Could Be in Water

T he 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.

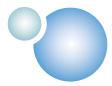
Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

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, which 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. EPA prescribes regulations, which limit the amount 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 Environmental Protection Agency's Safe Drinking Water Hotline at (800) 426-4791.



Lead in Home Plumbing

f 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 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 2 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 or at www.epa.gov/safewater/lead.

Water Conservation

Y ou 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.

Where Does My Water Come From?

The City of Riviera Beach Utility District Water Treatment Plant obtains raw water from aquifers pumped from 27 wells throughout the city.

Currently, the City of Riviera Beach Utility District operates a lime-softening treatment plant. Raw water from the well field is first air-stripped to eliminate volatile organic compounds. The water is then treated with chemicals (lime, chlorine, ammonia, alum, and polymer) in a clarifier for softening and for disinfection. After the softening and disinfection process takes place, the water is then filtered to remove turbidity and pumped out to our consumers throughout our distribution system.



Information on the Internet

The U.S. EPA Office of Water (www.epa.gov/ watrhome) 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 (www.dep. state.fl.us) that provides complete and current information on water issues in Florida, including valuable information about our watershed.

QUESTIONS?

For more information about this report, or for any questions relating to your drinking water, please call Louis Aurigemma P.E., Executive Director of Utility District, at (561) 845-4185.

Source Water Assessment

These assessments were conducted to provide information about any potential sources of contamination in the vicinity of our wells. Potential sources of contamination identified include underground petroleum storage tanks, dry cleaning facilities, and wastewater treatment plants. The assessment was done in 2009, and there were 33 potential sources with low to moderate levels of susceptibility. This inventory only identifies potential sources of contamination. It does not mean that these sites are actively causing contamination of the drinking water source. The assessment results are available on the FDEP Source Water Assessment and Protection Program Web site at www.dep.state.fl.us/swapp.





Y ou may not be aware of it, but every time you pour fat, oil, or grease (FOG) down your sink (e.g., bacon grease), you are contributing to a costly problem in the sewer collection system. FOG coats the inner walls of the plumbing in your house as well as the walls of underground piping throughout the community. Over time, these greasy materials build up and form blockages in pipes, which can lead to wastewater backing up into parks, yards, streets, and storm drains. These backups allow FOG to contaminate local waters, including drinking water. Exposure to untreated wastewater is a public health hazard. FOG discharged into septic systems

and drain fields can also cause malfunctions, resulting in more frequent tank pump-outs and other expenses.

Communities spend billions of dollars every year to unplug or replace grease-blocked pipes, repair pump stations, and clean up costly and illegal wastewater spills. Here are some tips that you and your family can follow to help maintain a well-run system now and in the future:

NEVER:

- Pour fats, oil, or grease down the house or storm drains.
- Dispose of food scraps by flushing them.
- Use the toilet as a waste basket.

ALWAYS:

- Scrape and collect fat, oil, and grease into a waste container such as an empty coffee can, and dispose of it with your garbage.
- · Place food scraps in waste containers or garbage bags for disposal with solid wastes.
- Place a wastebasket in each bathroom for solid wastes like disposable diapers, creams and lotions, and personal hygiene products including nonbiodegradable wipes.



Sampling Results

D uring the past year we have taken hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic or synthetic organic contaminants. The table below shows only those contaminants that were detected in the water. The state requires us to monitor 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.

We failed to complete required sampling for tap water lead and copper on time and therefore were in violation of monitoring and reporting requirements. Because we did not take the required number of samples, we did not know whether the contaminants were present in your drinking water and possible adverse health effects are unknown. The monitoring period was 01/01/14 through 05/31/14. Thirty samples were required for each contaminant, and none was taken. Sampling resumed on 12/12/14.

PRIMARY REGULATED CONTAMINANTS

	Inorganic Contaminants												
	CONTAMINANT AND UNIT	DATE OF SAMPLIN (MO./YR.)		MCL VIOLATION (YES/NO)		VEL ECTED	RANGE OF RESULTS		MCLG	MCL	LIK	LIKELY SOURCE OF CONTAMINATION	
	Sodium (ppm)	dium (ppm) 12/30/2014		No	20		20–20		NA	160	Sa	t water intrusion, leaching from soil	
	Stage 1 Disinfectants and Dis	infection By-Produ	cts										
	ONTAMINANT DATE OF SAM ND UNIT OF MEASUREMENT (MO./YR							RANGE OF RESULTS			.G OR DLG]	MCL OR [MRDL]	LIKELY SOURCE OF CONTAMINATION
	Chloramines (ppm)	pacetic Acids (five) Quarterly 2014		N	No		65	0.0	5–4.6	[4]		[4.0]	Water additive used to control microbes
	Haloacetic Acids (five) [HAA5] (ppb)			No		42	42.43		142.09	NA		60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)		Quarterly	Quarterly 2014		No		.05	5.14-	-268.0	NA		80	By-product of drinking water disinfection
Lead and Copper (Tap water samples were collected from sites throughout the community)													
CONTAMINANT AND UNIT OF MEASUREMENT		DATE OF SAMPLING (MO./YR.)	AL EXCEE (YES/						-		(ACTIO		
	Copper [tap water] (ppm)	12/15/2014	N	No C		0.18		0	1.	3	1.3	systems;	n of household plumbing erosion of natural deposits; from wood preservatives
	Lead [tap water] (ppb)	12/15/2014	N	No 1		6		0	(0 15		Corrosion of household plumbing systems, erosion of natural deposits	
SECONDARY CONTAMINANTS													
					LATION (NO)	HIGHE RESU		RANGE O RESULTS		.G I	ICL	LIKELY SOURCE OF CONTAMINATION	
	Aluminum ¹ (ppb)	uminum ¹ (ppb) 12/29/2014		Yes		250	0	NA	NA NA		200	Natural occurrence from soil leaching	
	Color ¹ (Units)	(Units) 12/29/2014		Ye	s 18		3	NA	N	NA 15		Naturally occurring organics	

¹Our water system was in violation of federal and state water quality standards for aluminum and color in December 2014. Secondary contaminants are regulated to protect the aesthetics of drinking water like taste and odor.

Definitions

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

IDSE (Initial Distribution System Evaluation): An important part of the Stage 2 Disinfection Byproducts Rule (DBPR). The IDSE is a onetime study conducted by water systems to identify distribution system locations with high concentrations of trihalomethanes (THMs) and haloacetic acids (HAAs). Water systems will use results from the IDSE, in conjunction with their Stage 1 DBPR compliance monitoring data, to select compliance monitoring locations for the Stage 2 DBPR.

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).

