



CITY OF HOLLY HILL
1065 RIDGEWOOD AVENUE
HOLLY HILL, FLORIDA 32117-2898

2014 Annual Drinking Water Quality Report ***The City of Holly Hill***

We are pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a 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 the quality of your water. Our water source is ground water drawn from the Floridian Aquifer. Our treatment process consists of aeration, lime softening, and filtration with sand filters and chloramination for disinfection purposes. Fluoride is added for dental health purposes and a phosphate-based inhibitor is added to control corrosion.

SWAPP: Source Water Assessment and protection program. *In 2014 the Florida Department of Environmental Protection 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 4 potential sources of contamination identified for this system with a low to moderate susceptibility rating. Results are available on the FDEP website at www.dep.state.fl.us/swapp*

We are pleased to report that our drinking water meets all federal and state requirements.

We at the City of Holly Hill would like you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. If you have any questions about this report or concerning your water utility, please contact, Andrew Armstrong, Chief Operator, Water Treatment Plant at 386-248-9463. We encourage our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on alternate Tuesdays at 7:00 PM at City Hall.

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:

- (A) Microbial contaminants***, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- (B) Inorganic contaminants***, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- (C) Pesticides and herbicides***, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- (D) 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 storm water runoff, and septic systems.
- (E) 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 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 1-800-426-4791.

Important information for you to know

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 microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

This report shows our water quality results and what they mean.

The City of Holly Hill Water Treatment Plant routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulation. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2014, Data obtained before January 1, 2014, and presented in this report are from the most recent testing done in accordance with regulations.

In the tables below, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions:

Maximum Contaminant Level or MCL: 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.

Maximum Contaminant Level Goal or MCLG: 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 Residual Disinfectant Level or 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 Level Goal or MRDLG: The level of 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.

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

No Detection (ND): Means not detected and indicates that the substance was not found by laboratory analysis.

Not Applicable – (N/A): Does not apply

Parts per million (ppm) or Milligrams per liter (mg/l) – one part by weight of analyte to 1 million parts by weight of the water sample.

Parts per billion (ppb) or Micrograms per liter (µg/l) – one part by weight of analyte to 1 billion parts by weight of the water sample.

TEST RESULTS TABLES

Inorganic Contaminants							
Contaminant and Unit of Measurement	Dates of sampling (mo. /yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Barium (ppm)	5/14/14	No	0.005	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Nitrate (as nitrogen),(ppm)	5/14/14	No	0.048	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage, erosion of natural deposits
Sodium (ppm)	5/14/14	No	21.3	N/A	N/A	160	Salt water intrusion, leaching from soil
Fluoride (ppm)	2014	No	0.63	0.44-0.66	0.70	2.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories, Water additive which promotes strong teeth when at optimum level of 0.7ppm
Volatile Organic Contaminants							

Chlorobenzene (ppb)	5/14/14 7/14/14 10/28/14	No	1.7	ND-1.7	100	100	Discharge from chemical and agricultural chemical factories
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Stage 2 Disinfectant and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo. /yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
HAA5 (Total Haloacetic Acids) (ppb)	1/14/14 4/14/14 7/14/14 10/28/14	No	46.2	23.7-46.2	N/A	60	By-product of drinking water disinfection
TTHM(Total Trihalomethanes) (ppb)	1/14/14 4/14/14 7/14/14 10/28/14	No	67.6	41.1-67.6	N/A	80	By-product of drinking water disinfection
Chloramines and Chlorine (ppm)	2014	No	3.4	2.5-4.1	MRDLG 4.0	MRDL 4.0	Water additive used to control microbes

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement	Dates of sampling (mo. /yr.)	AL Exceeded Y/N	90 th Percentile Results	No. of sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	7/14	No	0.082	None	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	7/14	No	1.2	None	0	15	Corrosion of household plumbing systems, erosion of natural deposits

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 City of Holly Hill is 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 <http://www.epa.gov/safewater/lead>.

The City of Holly Hill has been monitoring for unregulated contaminants (UCs) as part of a study to help the U.S. Environmental Protection Agency (EPA) determine the occurrence in drinking water of UCs and whether or not these contaminants need to be regulated. At present, no health standards (for example, maximum contaminant levels) have been established for UCs. However, we are required to publish the analytical results of our UC monitoring in our annual water quality report. If you would like more information on the EPA's unregulated Contaminants Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791.

Unregulated Contaminants				
Unregulated Contaminant and Unit of Measurement	Dates of sampling (mo. /yr.)	Average Level Detected	Range of Results	Likely Source of Contamination
Chromium Hexavalent (ppb)	1/28/14	0.24	0.24	Naturally –occurring element
Chromium (ppb)	1/28/14	0.46	0.41-0.48	Naturally –occurring element
Strontium (ppm)	1/28/14	0.134	0.134	Naturally –occurring element
Vanadium (ppb)	1/28/14	0.77	0.75-0.78	Naturally –occurring element

Household Hazards

Help protect the drinking water in your home from contamination

CROSS-CONNECTION AND BACKFLOW PREVENTION: Over half the nation's cross-connections involve unprotected garden hoses. In cities across the United States, persons have died from drinking out of a garden hose. One such death was caused by a man spraying his yard with a poison to get rid of bugs by connecting his garden hose to a spraying device. Unknown to him, during the spraying a drop in pressure occurred in the main water system, causing the poisoned water to backflow into to hose...enough to kill him when he took a drink from the garden hose after spraying. **He had contaminated his own water system.**

What is a cross-connection?

Any connection between your drinking water and an unapproved source of water that can combine the two. With a cross-connection, your drinking water can become contaminated when a backflow condition occurs.

So? What is backflow?

Backflow is when the water in your pipes (the pipes after the water meter) goes backward (the opposite direction from its normal flow). With the direction of the flow reversed, due to a change in pressures backflow can allow contaminants to enter your home

There are two situations that can cause the water to go backward (backflow):

Backpressure - the pressure in your pipes is greater than the pressure coming in from the water main system.

Backsiphonage - is a negative pressure in one of the pipes.

To protect the water system, two types of backflow prevention devices are required for all customers whose premises present a potential hazard to the main water system:

External- protects the water main system from cross-connection with the water on the customer's premises.

Internal- protect the customer from potentially hazardous cross-connections in his or hers own system.

Without a backflow prevention device between your hose and hose bibb (spigot or outside faucet), the contents of the hose and anything it is connected to can backflow into the piping system and contaminate your drinking water. **However this can be avoided by the use of proper protection devices.** Each spigot at your home should have a hose- bibb vacuum breaker installed. This is a simple, inexpensive device, which can be purchased at any plumbing or hardware store. Installation is as easy as attaching your garden hose to a spigot.

If you have any questions please call the Public Works Department (386) 248-9463.