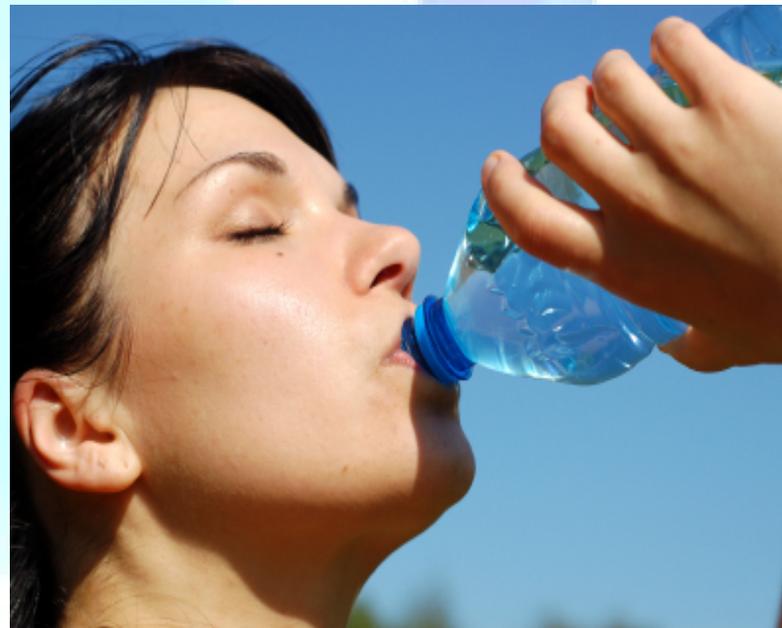




The City of Winter Springs 2013 Annual Drinking Water Quality Report



City of Winter Springs

2013 Annual Drinking Water Quality Report

We're very pleased to provide you with the Annual Water Quality Report for the 2013 calendar year. We want to keep you informed about the water quality and excellent services we have delivered to you. Our goal is and always has been to provide to you a safe and dependable supply of drinking water.

Our water is obtained from the Florida Aquifer and is chlorinated for disinfection and public health and safety. We are pleased to report that our drinking water meets all Federal and State requirements. If you have any questions about this report or your water utility, please contact the water treatment facility at 407-327-8992 Monday through Friday from 8:00 am to 5:00 pm.

In 2013, the Florida Department of Environmental Protection (FDEP) performed a Source Water Assessment of our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There were (2) potential sources of contamination identified for this system with a moderate susceptibility level. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp

The City of Winter Springs routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2013. Data obtained before January 1, 2013, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-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 (800-426-4791).

In the table 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.

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

Initial Distribution System Evaluation (IDSE): An important part of the Stage 2 Disinfection Byproducts Rule (DBPR). The IDSE is a one-time 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.

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 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.

Nephelometric Turbidity Unit (NTU) - measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

“ND” means not detected and indicates that the substance was not found by laboratory analysis.

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.

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.

Picocurie per liter (pCi/L) - measure of the radioactivity in water.

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

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water comes primarily from materials and components associated with service lines and home plumbing. The City of Winter Springs 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 sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater. 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.

In our continuing efforts to maintain a safe and dependable water supply, it may be necessary to make improvements in your water system. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements.

Test Result Table: NON-SECONDARY CONTAMINANTS TABLE

Total coliform bacteria: Highest Monthly Percentage/Number is the highest monthly number/percentage of positive samples for systems collecting fewer than 40 samples per month.						
Microbiological Contaminants						
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Highest Monthly Percentage/Number	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria (positive or negative)	1/13-12/13	N	0	0	For systems collecting at least 40 samples per month: presence of coliform bacteria in 5% of monthly samples. For systems collecting fewer than 40 samples per month: presence of coliform bacteria in 1 sample collected during a month.	Naturally present in the environment

Radiological Contaminants							
** Results in the Level Detected column for radiological contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency.							
Contaminant and Unit of Measurement	Date of sample analysis	MCL/AL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Gross Alpha (pCi/l)	08/11	N	7.4	1.5-7.4	0	15	Erosion of natural deposits
Radium 226 + 228 or combined radium (pCi/L)	08/11	N	1.7	0.8-1.7	0	5	Erosion of natural deposits

Inorganic Contaminant							
Contaminant and Unit of Measurement	Date of sample analysis	MCL/AL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm)	08/11	N	.0154	.001-.0154	2	2	Discharge from drilling waste; Erosion of natural deposits.
Chromium (ppb)	08/11	N	.00677	.00546-.00677	100	100	Erosion of natural deposits.
Sodium (ppm)	08/11	N	33.7	13.5-33.7	N/A	160	Salt water intrusion, leaching from soil

Stage 1 Disinfectant/Disinfection By-Product (D/DBP) Parameters

For bromate, chloramines, or chlorine, the level detected is the highest running annual average (RAA), computed quarterly, of monthly averages of all samples collected. For haloacetic acids or TTHM, the level detected is the highest RAA, computed quarterly, of quarterly averages of all samples collected if the system is monitoring quarterly or is the average of all samples taken during the year if the system monitors less frequently than quarterly. Range of Results is the range of individual sample results (lowest to highest) for all monitoring locations, including Initial Distribution System Evaluation (IDSE) results as well as Stage 1 compliance results.

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
Chlorine (ppm)	1/13-12/13	N	1.42	.63-2.1	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	3/13,6/13,9/13	N	N/A	24.5-26.8	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	3/13, 6/13,9/13	N	N/A	32.3-59.3	NA	MCL = 80	By-product of drinking water disinfection
Nickel (ppm)	08/11	N	.00332	.00262-.00332	N/A	0.1	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen) (ppm)	05/13	N	>.05	>.05	10	10	Run-off from fertilizer use; Leaching from septic tanks, Sewage; erosion of natural deposits

Lead and Copper Home Sample

Contaminant and Unit of Measurement	Date of sample analysis	MCL/AL Violation Y/N	Level Detected	Number of Sites exceeding the AL	MCLG	MCL	Likely Source of Contamination
Lead (tap water) (ppb)	2011	N	1.2 (90 th percentile)	0	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits; erosion of natural deposits;
Copper (tap water) (ppm)	2011	N	.604 (90 th percentile)	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Stage 2 Disinfectants and Disinfection By-Products

Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	MCL Violation (Y/N)	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Haloacetic Acid (HAA5) (ppb)	12/4/2013	N	52.4	13.1-52.4	N/A	60	By-product of drinking water disinfection
Total Trihalomethane (TTHM) (ppb)	12/4/2013	N	67.0	18.7-67.0	N/A	80	By-product of drinking water disinfection

Volatile Organics

Contaminant and Unit of Measurement	Date of sample analysis	MCL/AL Violation Y/N	Level Detected	Range	MCLG	MCL	Likely Source of Contamination
1,2 Cis-Dichloroethylene(ppb)	1/2013	N	>.2	ND	0	70	Discharge from pharmaceutical and chemical factories

City of Winter Springs Water Conservation Program

As part of our commitment to preserving our natural resources while better serving the community, the City of Winter Springs has implemented a water conservation program. The program seeks to promote water conservation and reduce water consumption among City residents through education, incentive programs, free services such as irrigation audits, and more. Did you know that Florida withdraws more groundwater than any other state east of the Mississippi? Our groundwater is a clean, affordable source of drinking water, but it is not an inexhaustible resource. If we do not conserve our groundwater, we may have to resort to alternative sources of drinking water such as surface water treatment and/or desalination, both of which are much more costly than our current source of water, the Floridan aquifer. The economically and environmentally sensible solution is to conserve the groundwater resources we currently utilize.

Irrigation can account for more than 50% of residential water use. You can conserve water by following the watering restrictions listed below. The City of Winter Springs encourages you to request a free irrigation audit to learn how you can maintain a healthy, green lawn while irrigating efficiently and reducing your monthly water bill. For more information on the water conservation program or to schedule an irrigation audit, please contact Water Conservation Coordinator, Stephanie Monica at 407-327-6584, smonica@winterspringsfl.org. You can also visit our water conservation webpage on the City website at www.winterspringsfl.org.

Time of year	Homes with odd numbered or no addresses	Homes with even numbered addresses	Nonresidential properties
Daylight saving time	Wednesday/Saturday	Thursday/Sunday	Tuesday/Friday
Eastern Standard Time	Saturday	Sunday	Tuesday
<ul style="list-style-type: none"> • Daylight saving time: Second Sunday in March until the first Sunday in November • Eastern Standard Time: First Sunday in November until the second Sunday in March • An odd numbered address is one that ends in 1, 3, 5, 7 or 9. • An even numbered address is one that ends in 0, 2, 4, 6 or 8. • Water only when needed and not between 10 a.m. and 4 p.m. • Water for no more than one hour per zone. • Restrictions apply to private wells and pumps, ground or surface water and water from public and private utilities. • Some exceptions apply. 			

These rules apply if you are using potable water or a private well for irrigation. If you have reclaimed water for irrigation, then you may water two days per week year round.