

City of Niceville 2013 Annual Water Quality Report

The City of Niceville is pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the excellent water and services we have delivered to you over the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water.

If you have any questions about this report or concerning your water utility, please contact:

Jerry Regans (Water & Waste Water Superintendent) @ 729-4064. We want our valued customers to be informed about their utility.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Our water source is ground water, which is drawn from the Floridan Aquifer by 9 wells and is chlorinated for disinfection purposes and then fluoridated for dental health purposes.

In 2013 the 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 three potential sources of contamination identified for this system with a low to 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 or they can be obtained from The City of Niceville. 729-4064

The water we withdraw from the Floridan Aquifer is recharged by rainfall in northern parts of Okaloosa and Walton Counties and in southern Alabama and Georgia, where the formation is at or near the surface. The Floridan Aquifer underlies south Okaloosa County (Niceville) at a depth of 350 to 500 feet below the surface.

For more information on the Floridan Aquifer, visit the web site of NorthWest Florida Water Management District.

<http://nwfwmd.state.fl.us/>

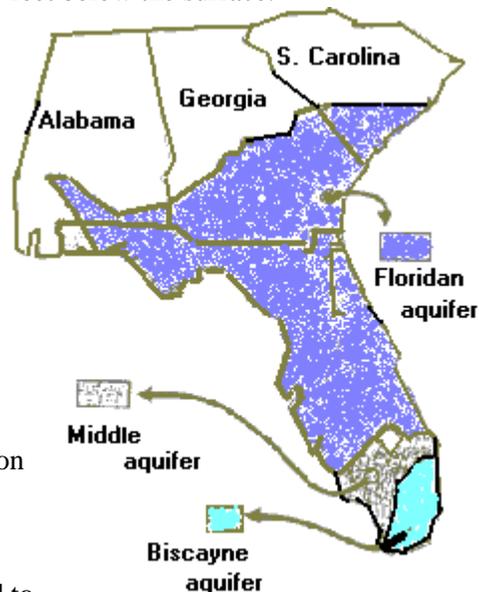
The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

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.

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).

The City of Niceville 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.



CONTAMINANTS AND DEFINITIONS

In the following table you will find terms and abbreviations you might not be familiar with. To help you better understand these terms and abbreviations we've provided the following definitions and a list of contaminants that may be present in source water. The table will also show the most likely source of these contaminants.

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

Terms and Abbreviations you may find in our table:

Maximum Contaminant Level (MCLs) 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 - The "Goal"(MCLG) 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.

Non-Detects (ND) - means not detected and indicates that the substance was not found by laboratory analysis.

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 - 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 (AL) - the concentration of a contaminant, which if exceeded, triggers treatment or other requirements, which a water system must follow.

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.

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.

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 Niceville 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>.

2013 CONTAMINANTS TABLE

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
Radioactive Contaminants							
Alpha emitters (pCi/L)	Sep-08/Nov 09	N	3	ND-3	0	15	Erosion of natural deposits
Radium 226 + 228 or combined radium (pCi/L)	Sep-08/Nov 09	N	2.19	0.07- 2.19	0	5	Erosion of natural deposits
Inorganic Contaminants							
Arsenic (ppb)	Aug-11	N	2.3	ND-2.3	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	Aug-11	N	0.0089	0.0051- 0.0089	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	Aug-11	N	1.18	0.68-1.18	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum level of 0.7 ppm
Sodium (ppm)	Aug-11	N	8	5.7 - 8	N/A	160	Salt water intrusion, leaching from soil
Cyanide (ppb)	Aug-11	N	5	ND- 5	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Disinfectant or Contaminant and Unit of Measurement							
Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL or MRDL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Stage 1 Disinfectants and Disinfection By-Products							
Chlorine (ppm)	Jan-Dec 13	N	0.7	0.6-0.8	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	Aug-13	N	1.0	0.87-1.8	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	Aug-13	N	3.2	1.16-6	NA	MCL = 80	By-product of drinking water disinfection
Stage2 Disinfectants and Disinfection By-Products							
Haloacetic Acids (five) (HAA5) (ppb)	Nov-13	NA	NA	0.85-0.89	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	Nov-13	NA	NA	ND-2.62	NA	MCL = 80	By-product of drinking water disinfection

*Results not calculated until four quarters are sampled

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	AL Exceeded (Y/N)	90th Percentile Result	No. of sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Lead and Copper (Tap Water)							
Copper (tap water) (ppm)	June-Sept. 11	N	0.15	0 of 30	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	June-Sept. 11	N	2	0 of 30	0	15	Corrosion of household plumbing systems, erosion of natural deposits

Microbiological Contaminants

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Highest Monthly Number	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria	Jan-Dec 2013	N	1	0	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

In addition to required chemical monitoring The City of Niceville also monitored for unregulated contaminants (UCs) in 2013 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) or likely sources 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.

2013 UNREGULATED CONTAMINANTS

Unregulated Contaminants			
Contaminant	Level Detected	Range	Likely Source of Contamination
Chromium (total chromium)	0.136	0-.35	Unavailable
Molybdenum	2.4	0-4.6	Unavailable
Strontium	203	0-345	Unavailable
Vanadium	.01	0-.35	Unavailable
Chromium, Hexavalent	.004	0-.023	Unavailable



City of Niceville's Water Quality Report

MAYOR:

Randall Wise

CITY MANAGER:

Lannie L. Corbin

CITY CLERK:

Daniel J. Doucet

COUNCIL MEMBERS:

**Sal M Nodjomian, William Schaezle, Heath Rominger,
Daniel Henkel, Judy Boudreaux**

**City Council meets the second Tuesday of every Month at 7:00 PM
in the Council Chambers Located at 208 N. Partin Dr. Niceville, Fl**