

## ***2010 Annual Drinking Water Quality Report Santa Fe Hills Subdivision***

We're 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 safe and 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 drawn ground water from wells. The wells drawn water from the Floridian Aquifer, and is chlorinated for disinfection purposes.

In 2010, the Department of Environmental Protection has performed a Source Water Assessment on our system. These assessments were conducted to provide information about any potential contamination in the vicinity of our wells. A moderate potential source of contamination identified includes underground petroleum storage tank. The assessment results are available on the DEP Source Water Assessment and Protection Program website at [www.dep.state.fl.us/swapp](http://www.dep.state.fl.us/swapp).

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

*If you have any questions about this report or concerning your water utility, please contact Mr. Kenneth Fair of the Alachua County Public Works Department at (352) 374-5245 x 1233. We encourage our valued customers to be informed about their water utility.*

*Santa Fe Hills Water System 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, 2010. Data obtained before January 1, 2010, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.*

*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.*

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

*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.*

*“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 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.*

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

*Millirem per year (mrem/yr) - measure of radiation absorbed by the body.*

| ** 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  | Dates of sampling (mo./yr.) | MCL Violation Y/N | Level Detected                    | Range of Results | MCLG   | MCL                                  | Likely Source of Contamination  |
| <b>Radiological Contaminants</b>   |                             |                   |                                   |                  |  |                                      |   |
| Alpha emitters (pCi/l)   | 6/09                        | N                 | 1.2                               | N/A              | 0  | 15                                   | Erosion of natural deposits   |
| Radium 226 + 228 or combined radium (pCi/l)  | 6/09                        | N                 | 0.4                               | N/A              | 0  | 5                                    | Erosion of natural deposits   |
| Uranium (pCi/l)  | 6/09                        | N                 | 0.3                               | N/A              | 0  | 30                                   | Erosion of natural deposits   |
| Contaminant and Unit of Measurement  | Dates of sampling (mo./yr.) | MCL Violation Y/N | Highest Monthly Percentage/Number | MCLG             | MCL  | Likely Source of Contamination       | Contaminant and Unit of Measurement   |
| <b>Microbiological Contaminants</b>  |                             |                   |                                   |                  |  |                                      |   |
| Total Coliform Bacteria (positive samples)   | 8/2010                      | Y                 | 2                                 | 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 | Total Coliform Bacteria (positive samples)  |
| 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  |
| <b>Inorganic Contaminants</b>  |                             |                   |                                   |                  |  |                                      |   |
| Antimony (ppb)   | 6/09                        | N                 | 0.6                               | N/A              | 6  | 6                                    | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder |

|                             |      |   |      |     |     |     |  |
|-----------------------------|------|---|------|-----|-----|-----|--|
| Arsenic (ppb)               | 6/09 | N | 0.8  | N/A | N/A | 10  | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes   |
| Chromium (ppb)              | 6/09 | N | 4.9  | N/A | 100 | 100 | Discharge from steel and pulp mills; erosion of natural deposits   |
| Fluoride (ppm)              | 6/09 | N | 0.16 | N/A | 4   | 4.0 | Erosion of natural deposits; water additive which promotes strong teeth when at optimum levels between 0.7 and 1.3 ppm; discharge from fertilizer and aluminum factories |
| Lead (point of entry) (ppb) | 6/09 | N | 0.6  | N/A | N/A | 15  | Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder  |
| Nickel (ppb)                | 6/09 | N | 2.9  | N/A | N/A | 100 | Pollution from mining and refining operations. Natural occurrence in soil.   |
| Nitrate (as Nitrogen) (ppm) | 9/10 | N | 3.2  | N/A | 10  | 10  | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits  |
| Selenium (ppb)              | 6/09 | N | 1.8  | N/A | 50  | 50  | Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines   |
| Sodium (ppm)                | 6/09 | N | 6.5  | N/A | N/A | 160 | Salt water intrusion, leaching from soil   |

## Stage 1 Disinfectants and Disinfection By-Products

\*\*For Haloacetic Acids or TTHM, the level detected is the average of all the samples taken during the year if the system monitor less frequently than quarterly. Range of results is the range of individual sample results (lowest to highest) for all monitoring locations.

| 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)                       | 2010                        | N                 | 2.01           | 0.32-3.2         | MRDLG = 4     | MRDL = 4.0  | Water additive used to control microbes   |
| Haloacetic Acids (five) (HAA5) (ppb) | 9/09                        | N                 | 3.75           | N/A              | NA            | MCL = 60    | By-product of drinking water disinfection |

| Contaminant and Unit of Measurement | Dates of sampling (mo./yr.) | AL Violation Y/N | 90th Percentile Result | No. of sampling sites exceeding the AL | MCLG | AL (Action Level) | Likely Source of Contamination   |
|-------------------------------------|-----------------------------|------------------|------------------------|--|------|-------------------|--|
| <b>Lead and Copper (Tap Water)</b>  |                             |                  |                        |  |      |                   |  |
| Copper (tap water) (ppm)            | 1/10 - 12-10                | N                | 0.14                   | 0                                      | 1.3  | 1.3               | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Lead (tap water) (ppb)              | 1/10- 12/10                 | Y                | 38.02                  | 2                                      | 0    | 15                | Corrosion of household plumbing systems, erosion of natural deposits                                   |

*We constantly monitor for various contaminants in the water supply to meet all regulatory requirements. Our water system was in violation of federal and state water quality standards for total coliform during August 2010. Upon notification of this violation, operators changed to another well and disinfected well containing the violation for coliform. The levels detected are shown in the Test Results Table above. Repeat samples for coliform were collected after the positive samples, and the results were absent for coliform bacteria indicating no contamination in the water. Also, we exceeded the lead action level during the tap sampling on September 2010 for two homes of ten homes tested. The distribution system was also tested but did not exceed the allowable level. However, additional tap sampling for lead was conducted and results indicated an exceedance of the lead action level (AL) again in two of the ten homes tested. We are evaluating the lead problem that appears to be the result of corrosion from the piping and plumbing features, and we are planning to add a polyphosphate treatment to correct the lead problem.*

*Total Coliform. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.*

*Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adult who drink water over many years could develop kidney problems or high blood pressure.*

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. Santa Fe Hills Water System 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 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 stormwater 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 stormwater 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 stormwater 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.*

*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).*

*We at Santa Fe Hills Water System 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 insuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call any of the numbers listed.*