

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*, 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, 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*, can be naturally occurring or the result of oil and gas production and mining activities.

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).

Source Water Assessment and Protection Program or SWAPP was created in order to protect our vital resources. SWAPP is meant to ensure that your drinking water is safe, not just at the tap, but at its source. The Department of Environmental Protection has performed a Source Water Assessment on New Hope Villas water system in 2008 and a search of the data sources indicated no potential sources of contamination near New Hope Villas wells. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

If you have any questions about your utility operations or this report please feel free to call Volusia County Utilities Operations at (386) 822-6465 from 8:00 AM to 4:00 PM, Monday through Friday. As always you may also contact your County Council representative with your comments and concerns. The County Council meet on the first and third Thursday of every month at the County Administration Building, 123 W. Indiana Avenue in DeLand.

Water Quality Questions and Answers

Why do I get dirty water?

Dirt or sand can occur naturally in groundwater or as a result of a water line repair. We try to reduce the instances of dirt or sand in the water through regular flushing. Flushing improves water quality by increasing the circulation of water in the pipes and removing most of the sediment from the water.

What can I do if I have been issued a Boil Water Notice?

Boil your water for at least one (1) minute at a rolling boil or add eight (8) drops of unscented household bleach to each gallon of water and let it stand at least thirty (30) minutes. *Do not use this procedure for infant formula.* Or Use Bottled Water. Repeat if the water is still cloudy.



**Volusia County
FLORIDA**
WATER RESOURCES AND UTILITIES
www.volusia.org

CONSUMER CONFIDENCE

DRINKING WATER REPORT

**NEW HOPE VILLAS
WATER TREATMENT PLANT
(PWS 3644332)**

**2008 REPORT
PUBLISHED IN 2009**

TOTAL HOME WATER USAGE: Indoor use 40%, Outdoor use 60%

Conserve Water Indoors

- The typical family uses about 70% of their water in the bathroom. This is partly because water is used at a faster “flow rate” in the bathroom than in any other parts of the home. Toilets and showers have a flow (Non low-flow) rate of about 5 to 7 gallons per minute; dishwashers and clothes washers use less than three gallons per minute.
- Verify that your home is leak free. Many homes can have hidden leaks. To check, read your water meter before and after a one-hour period when no water is being used. If the meter does not read exactly the same, there is a leak.
- Repair any leaky faucets. A dripping faucet can waste up to 2,700 gallons of water per year, which will also add to the sewer charge on your utility bill.
- Check for toilet tank leaks by adding a few drops of food coloring to the tank. If the toilet is leaking, color will appear in the water in the bowl within 30 minutes. Flush when the test is completed to prevent tank staining.
- Never use the toilet for a trash can. Dispose of tissues, insects and other such waste in the trash.
- Install a displacement device, such as a bag or bottle filled with water, to cut down on the amount needed per flush. Even better, consider purchasing low-volume toilets which use less than half the water of older models.
- Take shorter showers and replace shower heads with low-flow units. When bathing, fill the tub only one-third to one-half full.
- Operate dishwashers and clothes washers only when they are fully loaded.

Conserve Water Outdoors

- Keep your lawn free from weeds. Weeds are water thieves, and will rob your plants and lawn of water and nutrients.
- Don't over water your lawn. As a general rule, lawns only need watering every 5 to 7 days in the summer and every 10 to 14 days in the winter.
- Water lawns in the early morning hours when temperatures and wind speeds are lowest. This reduces loss from evaporation. (ie: One zone flowing 15 to 25 gallons per minute uses 150 gallons to 250 gallons in 10 minutes.)
- Don't water your street, driveway or sidewalk. Position your sprinklers so water lands on plants and shrubs, not paved areas.
- Mulch to retain moisture in the soil. Mulching also helps to control weeds that compete with plants for water.
- Don't hose down your driveway or sidewalk. Use a broom to clean leaves and other debris.
- Connect a shut-off nozzle to your hose so water flows only when needed. When finished, turn it off at the faucet to avoid leaks.
- If you have a swimming pool, consider a new water-saving pool filter. A single back-flushing with a traditional filter uses from 180 to 250 gallons or more of water.
- Check the level in your pool using a grease pencil. Your pool shouldn't lose more than 1/4 inch each day. If it is losing more than this, check elsewhere for leaks.
- Plant low water use landscaping. Transform your garden into a lush desert oasis by replacing lawn and water-consuming plants with attractive native and drought-tolerant plants.
- While fertilizers promote plant growth, they also increase water consumption. Apply the minimum amount of fertilizer needed.
- Don't let the water run while washing the car. Get the car wet, then turn off the water while you soap the car down. Turn on the water again for a final rinse.
- Pick-up the phone and report significant water losses from broken pipes, open hydrants and errant sprinklers to the property owner, city or water agency.

Los Recursos del Agua del Condado de Volusia y Utilidades se complacen para presentar el Informe Potable Anual de la Calidad de Agua. Este informe se diseña para informar nuestros clientes de la calidad del agua potable entregada a usted cada día. Vaya por favor al club para una copia en el español, o llamada 386-822-6465.

The Volusia County Water Resources and Utilities is pleased to present the Annual Drinking Water Quality Report. This report is designed to inform our customers of the quality of the drinking water delivered to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. The Safe Drinking Water Act (SDWA) has been the primary regulation to ensure that public health and safety is protected in drinking water supplies throughout the nation. Here in Volusia County our primary source of drinking water is the Floridan aquifer. The Floridan aquifer is a lens of water located beneath the bedrock of northeast Florida. Currently all Volusia County water treatment plants use wells to extract ground water from the aquifer. Two deep well supply the New Hope Villas subdivision water needs. Chlorination for disinfection is added to the raw water to keep the distribution system safe from pathogenic bacteria.

The Volusia County Water Resources and Utilities 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 1st 2008 to December 31st 2008. The results are from the most recent testing.

In this table you will find many terms and abbreviations you may not be familiar with. To help you better understand these terms we've provided the following definitions:
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.
Treatment Technique (TT) - A treatment technique is 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.

Test Results 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
Radiological Contaminants							
Alpha (pCi/L)	02/2004	N	1.9	N/A	0	15	Erosion of Natural Deposit
Inorganic Contaminants							
Barium (ppm)	04/2006	N	0.016	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	04/2006	N	0.44	N/A	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.3 ppm
Nitrate (as Nitrogen) (ppm)	06/2008	N	0.0057	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	04/2006	N	14	N/A	N/A	160	Salt water intrusion, leaching from soil
Disinfectant or Contaminant and Unit of	Dates of Sampling (mo./yr.)	MCL 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							
Haloacetic Acids (five) (HAA5) (ppb)	07/2008	N	57.5	47.9 - 65.2	N/A	60	By-product of drinking water disinfection.
THM (Total trihalomethane) (ppb)	07/2008	N	63.5	44 - 76	N/A	80	By-product of drinking water disinfection.
Chlorine (ppm)	01/2008 - 12/2008	N	1.2	0.6 - 1.8	MRDLG = 4	MRDL = 4.0	Water Additive used to control microbes.
Contaminant and Unit of Measurement	Dates of Sampling (mo./yr.)	AL Violation Y/N	90th Percentile Result	No. of Samples sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Lead and Copper (Tap Water)							
Copper (tap water) (ppm)	08/2006	N	0.046	None	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	08/2006	N	6.8	None	0	15	Corrosion of household plumbing systems, erosion of natural deposits
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Highest Result	Range of Results	MCLG	MCL	Likely Source of Contamination
Secondary Contaminants							
Iron (ppm)	04/2006	Y	0.46	N/A	N/A	0.30	Natural occurrence from soil leaching

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.
Maximum Contaminant Level - The "Maximum Allowed" (MCL) is 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. MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effects. We constantly monitor for various constituents in the water supply to meet all regulatory requirements.

In 2008, we had a site that showed elevated level of Haloacetic Acids (HAA5).
Haloacetic acids (five) (HAA5): Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. 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. Volusia County 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 and 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 (1-800-426-4791) or at ww.epa.gov/safewater/lead.

In order to ensure that tap water is safe to drink, EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. All 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.

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.