ENGLEWOOD WATER SYSTEM Water Quality Report 2011

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On Tap!

Our Commitment Our Profes

Yes, our water meets all of EPA's health standards.
We have conducted numerous tests for over 80 contaminants that may be in drinking water. As you'll see in the chart below, we only detected 10 of these contaminants. We found all of these contaminants at safe levels.

What is the source of my water?

Your water is treated surface water, and some is purchased from Etowah Utilities. Our goal is to protect our water from contaminants and we are working with the State to determine the vulnerability of our water source to potential contamination. The Tennessee

Department of Environment and Conservation (TDEC) has prepared a Source Water Assessment Program (SWAP) Report for the untreated water sources serving this water system. The SWAP Report assesses the susceptibility of untreated water sources to *potential* contamination.

To ensure safe drinking water, all public water systems treat and routinely test their water. Water sources have been rated as reasonably susceptible, moderately susceptible or slightly susceptible based on geologic factors and human activities in the vicinity of the water source. The Englewood Water System sources rated as moderately susceptible to potential contamination. An explanation of Tennessee's Source Water

Assessment Program, the Source Water Assessment summaries, susceptibility scorings and the overall TDEC report to the Environmental Protection Agency (EPA) can be viewed online at <a href="https://www.state.nummer.com/www.state.nummer tn.gov/environment/dws/dwassess.php or you may contact the Water System to obtain copies of specific assessments. Why are there contaminants in my water?

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 water poses a health risk. More information about contaminants and notential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791). Este informe contiene información muy importante.

Tradúscalo o hable con alguien que lo entienda bien. For more information about your drinking water, please call Mary Miller at 887-7277.

How can I get involved?

govern our operations?

Our City Commission meets on the second Monday of each month at 6:00 p.m., at Englewood City Hall,

101 Niota Rd. Is our water system meeting other rules that

The State and EPA require us to test and report on our water on a regular basis to ensure its safety.

We have met all of these requirements. Results of unregulated contaminant analysis are available upon request. We want you to know that we pay attention to all the rules. Other Information The sources of drinking water (both tap 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-occuring minerals and, in some cases, radioactive material, and can pick up substances resulting from Water Quality What does this chart mean?

the presence of animals or from human activity Contaminants that may be present in source water:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- · 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.
- · Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban

stormwater runoff, and residential uses.

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.

· 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, EPA

and the Tennessee Department of Environment and Conservation prescribe 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. Do I Need To Take Special Precautions?

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 under-gone 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 not only their drinking water, but food preparation, personal hygiene, and precautions in handling infants and pets 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). Lead 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 is primarily from materials and components associated with service lines and home plumbing. The Englewood 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. Water System Security Following the events of September 2001, we realize

that our customers are concerned about the security of their drinking water. We urge the public to report

any suspicious activities at any utility facilities, including treatment plants, pumping stations, tanks, fire hydrants, etc. to 887-7277. Data MCLG: Maximum Contaminant Level Goal, or the level of a contaminant in drinking water below which there is no known

Water additive used

to control microbes

or expected risk to health. MCLGs allow for a margin of safety. MCL: Maximum Contaminant Level, or 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. 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 effect. MRDL; 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 the control of microbial contaminants. MRDLG: Maximum residual disinfectant level goal. 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 AL - Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- Below Detection Level (BDL) laboratory analysis indicates that the contaminant is not present at a level that can be detected. Non-Detects (ND) - laboratory analysis indicates that the contaminant is not present. Parts per million (ppm) or Milligrams per liter (mg/l) - explained as a relation to time and money as 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 - explained as a relation to time and money as one part per billion cor-
- responds to one minute in 2,000 years, or a single penny in \$10,000,000. Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess
- of 5 NTU is just noticeable to the average person. III - Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.
- Likely Source of Contaminant MCLG

				- Transport				Contaminant
Total Coliform Bacteria	No	0		2011		0	1 positive sample	Naturally present in the environment
Turbidity ¹	No	0.24	0.04= 0.24	2011	NTU	n/a	ТТ	Soil runoff
Copper	No	90 th %= 0.097		2009	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	No	1.1 .75 Avg.	0.2- 1.10	2011	ppm	4	4	Erosion of natural deposits, water additive which promotes strong teeth, discharge from fertilizer and aluminum factories
Lead	No	90 th %= 2.0		2009	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen)	No	1.5		2011	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	No	3.0		2011	ppm	N/A	N/A	Erosion of natural deposits; used in water treatment
TTHM** (Total trihalomethanes)	No	53.25 avg.	31.9- 77.5	2011	ppb	n/a	80	By-product of drinking water chlorination
Haloacetic Acids (HAA5)	No	47.23 avg.	31.1- 74.0	2011	ppb	N/A	60	By-product of drink- ing water disinfection
Total Organic Carbon ²	No			2011	ppm	TT	TT	Naturally present in the environment

ppm

avg. 1.8 During the most recent round of Lead and Copper testing, only 0 out of 10 households sampled contained concentrations exceeding the lead action level and 0 out of 10 households sampled exceeded the copper action

100% of our samples were below the turbidity limit.

1.33

Chlorine

0.9

²We have met all treatment technique requirements for Total Organic Carbon removal.

Cryotisoiridium is a microbial parasite which is found in surface water throughout the U.S. Although Cryptosproidium can be removed by filtration, the most commonly used filtration methods cannot guarantee 100% removal. Monitoring of source water from Englewood Utility indicated the presence of 6 cryptosporidium in 12 samples tested during 2011. No Cryptosporidium were detected in finished water samples. Symptoms

2011

of infection include nausea, diarrhea and abdominal cramps. Most healthy people are able to overcome the disease within a few weeks. However, immuno-compromised people have more difficulty and are at a greater risk of developing severe, life threatening illness. Immuno-compromised people are encouraged to consult their doctor regarding appropriate precautions to prevent infection. For more information on Cryptosporidium, call the Safe Drinking Water Hotline at 800-426-4791.