City of Denham Springs
Water Department

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The Water We Drink

CITY OF DENHAM SPRINGS
Public Water Supply ID: LA1063004

We are pleased to present to you the Annual Water Quality Report for the year of 2017. This report is designed to inform you about the quality of your water and services we deliver to you every day (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien). 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 pure water resources. We are committed to ensuring the high quality of your water. Our water source(s) are listed below.

Source Name	Source Location	Source Type	Source ID
EASTOVER Water Well	Southern Hills Aquifer	Groundwater	1063004-001
CAROLYN Water Well	Southern Hills Aquifer	Groundwater	1063004-002
RODEO Water Well	Southern Hills Aquifer	Groundwater	1063004-003
RUSHING Water Well	Southern Hills Aquifer	Groundwater	1063004-004
BRIGNIC Water Well	Southern Hills Aquifer	Groundwater	1063004-005
4-H CLUB Water Well	Southern Hills Aquifer	Groundwater	1063004-006

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 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:

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 results of oil and gas production and mining activities.

A Source Water Assessment Plan (SWAP) is now available from our office. This plan is an assessment of a delineated area around our listed sources through which contaminants, if present, could migrate and reach our source water. It also includes an inventory of potential sources of contamination with the delineated area, and a determination of the water supply's susceptibility to contamination by the identified potential sources. According to the Source Water Assessment Plan, our water system has a susceptibility rating of 'MEDIUM'. If you would like to review the Source Water Assessment Plan, please feel free to contact our office at the number provided in the following paragraph.

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. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. We want our valued customers to be informed about their water utility. If you have any questions about this report, want to attend any of our regularly scheduled council meetings, or simply want to learn more about your drinking water, please contact the CITY OF DENHAM SPRINGS at 225-667-8351.

If present, elevated levels of lead can cause serious health problems, especially for pregnant woman and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. CITY OF DENHAM SPRINGS WATER DEPARTMENT 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 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 Louisiana Department of Health and Hospitals – Office of Public Health routinely monitors for contaminants in your drinking water according to Federal and State Laws. The tables that follow show the results of our monitoring during the period of January 1st to December 31st, 2017. 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.

In the tables below, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions.

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 liters (µg/L) – one part per billion corresponds to one minute in 2,000 years, or a single penny in $10,000,000.

Picouries per liter (pCi/L) – picocuries per liter is a measure of the radioactivity in water.

Treatment Technique (TT) – an enforceable procedure or level of technological performance which public water systems must follow to ensure control of a contaminant.

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

Maximum Contaminant Level (MCL) – the "Maximum Allowed" MCL is the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

A Maximum Contaminant Level Goal (MCLG) – the "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLG's allow for a margin of safety.

Maximum Residual Disinfectant Level (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 (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.

Level 1 Assessment – A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment – A very detailed study of the water system to identify potential problems and determine (if possible) why an E.coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

During the period covered by this report we had the below noted violations.

Compliance Period	Analyte	Compliance Period
No Violations Occurred in the Calendar Year of 2017		

Our water system tested a minimum of 30 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. With the microbiological samples collected, the water system collects disinfectant residuals to ensure control of microbial growth.

Disinfectant	Date	Highest Running Annual Average	Unit	Range	MRDL	MRDLG	Typical Source
CHLORINE	2017	0.27	ppm	0.57 – 1.54	4	4	Water additive used to control microbes

In the tables below, we have shown the regulated contaminants that were detected. Chemical Sampling of our drinking water may not be required on an annual basis; therefore, information provided in this table refers to the latest year of chemical sampling results.

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
DI(2-ETHYLHEXYL) PHTHALATE	9/19/2017	0.51	0.51	ppb	6	0	Discharge from rubber and chemical factories
FLORIDE	7/17/2017	0.6	0.1 – 0.6	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizes and aluminum factories
NITRATE-NITRITE	1/18/2017	0.046	0.031 – 0.046	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Radionuclides	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
COMBINED RADIUM (-226 & -228)	7/17/2017	0.663	0.663	PCi/l	5	0	Erosion of natural deposits
GROSS ALPHA PARTICLE ACTIVITY	7/17/2017	3.53	3.53	pCi/l	15	0	Erosion of natural deposits
GROSS BETA PARTICLE ACTIVITY	7/17/2017	2.02	2.02	pCi/l	50	0	Decay of natural and man-made deposits. Note: The gross beta particle activity MCL is a 4 millirems/year annual dose equivalent to the total body or any internal organ. 50 pCi/l is used as a screening level.

Lead and Copper	Date	90th Percentile	Range	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2015 – 2017	0.1	0.1	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
LEAD	2015 – 2017	1	1 – 3	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfectant Byproducts	Sample Point	Period	Highest LRAA	Range	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACID (HAA5)	1000 DAVIS LANE	2017	5	2.5 – 8.3	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACID (HAA5)	11400 LA HWY 1033	2017	5	4.8 – 5.4	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACID (HAA5)	30593 FAIRWAY VIEW	2017	1	0.58 – 2.18	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACID (HAA5)	JOHNSON LANE	2017	6	2.5 – 8.2	ppb	60	0	By-product of drinking water disinfection
TTHM	10000 DAVIS LANE	2017	16	10.1 – 20.6	ppb	80	0	By-product of drinking water chlorination
TTHM	11400 LA HWY 1033	2017	15	7.5 – 20.3	ppb	80	0	By-product of drinking water chlorination
TTHM	30593 FAIRWAY VIEW	2017	7	4.2 – 5.8	ppb	80	0	By-product of drinking water chlorination
TTHM	JOHNSON LANE	2017	21	6.6 – 28.3	ppb	80	0	By-product of drinking water chlorination

Secondary Contaminants	Collection Dates	Highest Value	Range	Unit	SMCL
ALUMINUM	7/17/2017	0.01	0.01	MG/L	0.05
IRON	7/17/2017	1.06	0.02 – 1.06	MG/L	0.3
MANGANESE	7/17/2017	0.04	0.01 – 0.04	MG/L	0.05
PH	7/17/2017	8.63	5.96 – 8.63	PH	8.5
SULFATE	7/17/2017	11	8 – 11	MG/L	250

++++++++++++++++++++++++++++++Environmental Protection Agency Required Health Effects Language++++++++++++++++++++++++++++++

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 provider. 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).

There are no additional required health effects notices.

There are no additional required health effects violation notices.

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Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers.

We at the City of Denham Springs Water Department work around the clock to provide top quality drinking water to every tap. We ask that all our customers help us protect and conserve our water sources, which are the heart of our community, our way of life, and our children's future. Please call our office if you have questions