

# The Water We Drink

## CALCASIEU PARISH WATERWORKS DISTRICT NO 4

Public Water Supply ID: LA 1019053

We are pleased to present to you the Annual Water Quality Report for the year 2015. This report is designed to inform you about the quality of your water and services we deliver to you every day. (Este informe contiene informacion muy importante sobre su agua potable. Traduzcalo 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 our water resources. We are committed to ensuring the quality of your water. Our water source(s) are listed below:

<u>Source Name</u>	<u>Source Type</u>	<u>Source Water Body Name</u>
WELL #3 north	Groundwater	Chicot Aquifer
WELL #4	Groundwater	Chicot Aquifer
WELL #2 south	Groundwater	Chicot Aquifer

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, and 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.

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 reaches our source water. It also includes an inventory of potential sources of contamination within 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 had 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 are pleased to report that our drinking water is safe and meets Federal and State requirements. We want our valued customers to be informed about their water utility. If you have any questions about this report, want to attend any scheduled meetings, or simply want to learn more about your drinking water, please contact Brian Myers at 337-433-8353

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. Calcasieu Parish Waterworks District No. 4 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 Louisiana Department of Health and Hospitals - Office of Public Health routinely monitors for constituents 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, 2014. 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:

1. **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.
2. **Parts per billion (ppb) or Micrograms per liter (ug/L)** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
3. **Picocuries per liter (pCi/L)** - picocuries per liter is a measure of the radioactivity in water.
4. **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.
5. **Action level (AL)** - the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.
6. **Treatment technique (TT)** - a treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
7. **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.
8. **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.
9. **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.
10. **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.

During the period covered by this report we had the below noted violations of drinking water regulations.

Type	Category	Analyte Name	Compliance Period
No violations occurred in the calendar year of 2015			

Our water system tested a minimum of 6 monthly sample(s) in accordance with the Total Coliform Rule for microbiological contaminants. During the monitoring period covered by this report, we had the following noted detections for microbiological contaminants:

Microbiological	Results	MCL	MCLG	Typical Source
Coliform (TCR)	In month of Sept, 1 Sample returned positive	Systems that collect less than 40 0 samples per month –no more than 1 positive monthly sample		Naturally present in the environment

In the table below, we have shown the regulated contaminants that have detectable levels. These samples, except for Lead and Copper results and surface water systems, were collected at the raw water source and represent water before any treatment, blending or distribution. As such, the consumer tap levels could be less. Chemical Sampling of our drinking water may not be required on an annual basis; therefore, information provided in this table refers back to the latest year of chemical sampling results.

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
Dalapon	7/28/2014	0.94	0.94	ppb	200	200	Runoff from herbicide used on rights of way
Fluoride	7/28/2014	0.2	0.2	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.

Lead and Copper	Date	90 <sup>th</sup> Percentile	Range	Unit	AL	Sites over all	Typical Source
Copper	2013-2015	0.03	0.1-0.7	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead	2013-2015	3	1-4	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts	Sample Point	Period	Highest LRAA	Range	Unit	MCL	MCLG	Typical Source	
Total Haloacetic Acids(HAA5)	3740 Back Bay CT		2015	0	0-0	ppb	60	0	By-product of drinking water disinfection
TTHM	3740 Back Bay CT		2015	0	5.2-5.2	ppb	80	0	By-product of drinking water disinfection

**Disinfectants-Maximum Residual Disinfectant Level (MRDL) and Disinfection By-products-Maximum Contaminant Level (MCL)**

Disinfectants	Date	Result	Unit	Range	MRDL	MRDLG	Typical Source
Chlorine	2015	1.55	ppm	1.13-2.28	4	4	Water additive used to control microbes

Disinfectant	Result value	Health Effects Language if exceeded
Chlorine MRDL	Highest running annual arithmetic average, computed quarterly, of Monthly samples	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

Secondary contaminants	Collection date	Highest value	Range	Unit	SMCL
Chloride	7/28/14	25.8	24.2-25.8	MG/L	250
Iron	7/28/14	2.56	3.9-2.56	MG/L	0.3
Manganese	7/28/14	0.27	0.26-0.27	MG/L	0.05
PH	7/28/14	6.86	6.83-6.86	PH	8.5
Sulfate	7/28/14	5	3-4	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 for 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).

Additional required health effects language:

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.

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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 CALCASIEU PARISH WATERWORKS DISTRICT NO 4 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 337-433-8353 if you have questions. A copy of this report will not be mailed, you can be picked up a copy at Waterworks #4 office, 2435 Westwood Rd.