The Water We Drink

CYPRESS BLACK BAYOU WATER SYSTEM
Public Water Supply ID: LA1015040

We are pleased to present to you the Annual Water Quality Report for the year 2016. 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 our water resources. We are committed to ensuring the quality of your water.

Our water system purchases water as listed below:

Buyer Name	Seller Name
CYPRESS BLACK BAYOU WATER SYSTEM	CITY OF BOSSIER CITY WATER SYSTEM

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 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 reach 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.

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 scheduled meetings, or simply want to learn more about your drinking water, please contact CARL G. MAYER at 318-965-0015.

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. CYPRESS BLACK BAYOU 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 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, 2016. 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 liter (ug/L) – 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.

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.

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.

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 below noted violations of drinking water regulations.

Compliance Period	Analyte	Type
No Violations Occurred in the Calendar Year of 2016		

Our water system tested a minimum of 5 samples per month 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	Result	MCL	MCLG	Typical Source
No Detected Results were Found in the Calendar Year of 2016				

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 back to the latest year of chemical sampling results.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range	Unit	MCL	MCLG	Typical Source
ARSENIC	4/12/2016	CITY OF BOSSIER CITY WATER SYSTEM	0.6	0.6	ppb	10	0	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
BARIUM	4/12/2016	CITY OF BOSSIER CITY WATER SYSTEM	0.087	0.087	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
FLUORIDE	4/12/2016	CITY OF BOSSIER CITY WATER SYSTEM	0.62	0.62	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
NITRATE-NITRITE	4/12/2016	CITY OF BOSSIER CITY WATER SYSTEM	0.22	0.22	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
No Detected Results were Found in the Calendar Year of 2016							

Lead and Copper	Date	90TH Percentile	Range	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2014 - 2016	0.3	0.1 - 0.6	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
LEAD	2014 - 2016	3	1 - 5	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)	357 LINTON BELLEVUE ROAD	2016	4	0 - 7.61	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	RYAN RD & CYPRESS SHORES	2016	19	7.66 - 44.6	ppb	60	0	By-product of drinking water disinfection
TTHM	357 LINTON BELLEVUE ROAD	2016	13	5.75 - 23.7	ppb	80	0	By-product of drinking water chlorination
TTHM	RYAN RD & CYPRESS SHORES	2016	44	16.59 - 71.7	ppb	80	0	By-product of drinking water chlorination

Secondary Contaminants	Collection Date	Water System	Highest Value	Range	Unit	SMCL
ALUMINUM	3/9/2015	CITY OF BOSSIER CITY WATER SYSTEM	0.015	0.015	MG /L	0.05
CHLORIDE	4/12/2016	CITY OF BOSSIER CITY WATER SYSTEM	48.9	48.9	MG /L	250
MANGANESE	4/12/2016	CITY OF BOSSIER CITY WATER SYSTEM	0.016	0.016	MG /L	0.05
PH	4/12/2016	CITY OF BOSSIER CITY WATER SYSTEM	7.4	7.4	SU	8.5
SULFATE	4/12/2016	CITY OF BOSSIER CITY WATER SYSTEM	36.2	36.2	MG /L	250
ZINC	4/12/2016	CITY OF BOSSIER CITY WATER SYSTEM	0.43	0.43	MG /L	5

++++++++++++++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 providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial 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.

++

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 CYPRESS BLACK BAYOU WATER SYSTEM 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.

The Water We Drink
Addendum
Cypress Black Bayou Water System
Public Water Supply ID: LA1015040

Contaminants	Date	Result	Unit	Range	MRDL	MRDLG	Typical
Chlorine	2016	1.8	ppm	1.0-3.1	4	4	Water additive used to control microbes

TURBIDTY

(Source of following data on Turbidity is City Of Bossier City Water System)

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
[2] TURBIDITY	4/11/2016	0.11	0.03 - 0.11	NTU	0.3	0.3	Soil runoff

**No turbidity levels exceeded the maximum contaminate level during the year 2016. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The major sources of turbidity include soil runoff.*

Regulated Contaminants	Collection Date	Lowest % Value	Range	Unit	MCL	MCLG	Typical Source
TURBIDITY	N/A	100	N/A	NTU	0.3	0.3	Soil runoff

Month	Highest Finished/Combined Effluent Turbidity Data For The Month
January	.06
February	.06
March	.07
April	.11
May	.08
June	.07
July	.06
August	.06
September	.05
October	.04
November	.04
December	.04

Month	Total # of Samples	Turbidity Limit	# of Samples Above Turbidity	Monthly % of Samples Meeting the Turbidity Limit
January	186	0.3	0	100%
February	168	0.3	0	100%
March	186	0.3	0	100%
April	180	0.3	0	100%
May	186	0.3	0	100%
June	180	0.3	0	100%
July	186	0.3	0	100%
August	186	0.3	0	100%
September	180	0.3	0	100%
October	186	0.3	0	100%
November	180	0.3	0	100%
December	186	0.3	0	100%

[2] Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The major sources of turbidity include soil runoff.