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| |  | | --- | | **CITY OF PLAQUEMINE WATER SYSTEM** | | | | | | | |
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| |  | | --- | | **Public Water Supply ID: LA1047005** | | | | | | |  |
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|  | |  | | --- | | Consumer Confidence Report | | | | | |  |
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|  |  |  |  | |  | | --- | | 2023 CCR | | |  |
|  |  | |  | | --- | | **Additional Information and Electronic Copies can be found at www.ldh.la.gov/ccr**  What you need to do:  Review base report (numbered pages) for errors.  If you are a surface water system, you must insert the turbidity data.  Distribute completed report to your customers as outlined on the CCR Certification of Distribution Form no later than June 30, 2024.  A completed CCR Certification of Distribution Form including a copy of the final CCR report shall be submitted to the State at the address provided on the form no later than September 30, 2024.  **If submitting CCR Electronically by posting on a website, be aware of LAC 51:XII.403.C – Community water systems shall include their final letter grade and score in their annual Consumer Confidence Report (a.k.a. Annual Water Quality Report) that is posted on the water system website.  A statement like below must be added to the CCR notifying consumers of the water system grade.**                    Our water system grade is a “fill in grade here”.  Our water system report card can be found at “insert water system website link”.  **UCMR5-Water systems are required to distribute results for the unregulated contaminant monitoring rule (UCMR).  If you have collected samples and received results, you may insert that data into the CCR to satisfy the notification requirement.  The average of all results and the range of results at with the contaminant was detected.**  **Notes:**  This page is not part of your CCR; it is only the instruction page.  The pages that are numbered in the upper right hand corner are the report pages. | | | |  |  |
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| |  | | --- | | **The Water We Drink** | | | | | | | | | | | | |
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| |  | | --- | | **CITY OF PLAQUEMINE WATER SYSTEM** | | | | | | | | | | | | |
| |  | | --- | | Public Water Supply ID: LA1047005 | | | | | | | | | | | | |
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| |  | | --- | | We are pleased to present to you the Annual Water Quality Report for the year 2023.  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 source(s) are listed below: | | | | | | | | | | | | |
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|  |  |  |  |  |  |  |  | |  |  | | --- | --- | | Source Name | Source Water Type | | PORT ALLEN WELL #2 | Ground water | | PORT ALLEN WELL #3 | Ground water | | POWER PLANT WELL #1 | Ground water | | POWER PLANT WELL #2 | Ground water | | POWER PLANT WELL #3 | Ground water | | |  |  |
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| |  | | --- | | 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 PAUL SEAWELL at . | | | | | | | | | | | | |
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| |  | | --- | | 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. CITY OF PLAQUEMINE 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, 2023.  Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The pre8ence 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.  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. | | | | | | | | | | | | |
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|  |  |  |  | |  | | --- | | During the period covered by this report we had the below noted violations. | | | | | | |  |  |
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| |  | | --- | | Our water system tested a minimum of 15 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. | | | | | | | | | | | | |
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| |  | | --- | | 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. | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  | | --- | | The State of Louisiana regularly monitors source water per State and Federal Regulations.  Treated water samples are monitored to further evaluate compliance. | | | | | | | | | | |
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|  |  |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Source Water Regulated Contaminants | Collection Date | Highest Value | Range | Unit | MCL | MCLG | Typical Source | | ARSENIC | 5/15/2022 | 17 | 0 - 17 | ppb | 10 | 0 | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes | | BARIUM | 5/15/2022 | 0.34 | 0 - 0.34 | ppm | 2 | 2 | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits | | CIS-1,2-DICHLOROETHYLENE | 10/29/2023 | 0.69 | 0 - 0.69 | ppb | 70 | 70 | Discharge from industrial chemical factories | | FLUORIDE | 5/15/2022 | 0.7 | 0.1 - 0.7 | ppm | 4 | 4 | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories | | | | | | | | | |
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|  |  |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Treated Water Regulated Contaminants | Collection Date | Highest Value | Range | Unit | MCL | MCLG | Typical Source | | ARSENIC | 9/27/2023 | 4.5 | 1.9 - 4.5 | ppb | 10 | 0 | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes | | | | | | | | | |
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|  |  |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Source Water Radiological Contaminants | Collection Date | Highest Value | Range | Unit | MCL | MCLG | Typical Source | | COMBINED RADIUM (-226 & -228) | 5/15/2022 | 0.643 | 0 - 0.643 | pCi/l | 5 | 0 | Erosion of natural deposits | | GROSS ALPHA PARTICLE ACTIVITY | 5/15/2022 | 3.81 | 0 - 3.81 | pCi/l | 15 | 0 | Erosion of natural deposits | | GROSS BETA PARTICLE ACTIVITY | 5/15/2022 | 2.78 | 0 - 2.78 | pCi/l | 50 | 0 | Decay of natural and man-made deposits. Note: The gross beta particle activity MCL is 4 millirems/year annual dose equivalent to the total body or any internal organ. 50 pCi/L is used as a screening level. | | RADIUM-226 | 5/15/2022 | 0.524 | 0 - 0.524 | PCI/L | 5 | 0 |  | | RADIUM-228 | 5/15/2022 | 0.643 | 0 - 0.643 | PCI/L | 5 | 0 |  | | | | | | | | | |
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|  |  |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Lead and Copper | Date | 90TH Percentile | Range | Unit | AL | Sites Over AL | Typical Source | | COPPER, FREE | 2020 - 2023 | 0 | 0 | ppm | 1.3 | 0 | Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives | | LEAD | 2020 - 2023 | 1 | 1 - 2 | ppb | 15 | 0 | Corrosion of household plumbing systems; Erosion of natural deposits | | | | | | | | | |
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|  |  |  | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Disinfection Byproducts | Sample Point | Period | Highest LRAA | Range | Unit | MCL | MCLG | Typical Source | | TOTAL HALOACETIC ACIDS (HAA5) | 59335 WW HARLEAUX BLVD | 2022 - 2023 | 5 | 3 - 6 | ppb | 60 | 0 | By-product of drinking water disinfection | | TOTAL HALOACETIC ACIDS (HAA5) | ANTHONY ST @ BAYOU ROAD | 2022 - 2023 | 4 | 1.6 - 6.2 | ppb | 60 | 0 | By-product of drinking water disinfection | | TOTAL HALOACETIC ACIDS (HAA5) | HACKBERRY AT MCCLUNG | 2022 - 2023 | 6 | 3.9 - 6.2 | ppb | 60 | 0 | By-product of drinking water disinfection | | TOTAL HALOACETIC ACIDS (HAA5) | ISLAND GOLF COURSE | 2022 - 2023 | 5 | 1.35 - 7.1 | ppb | 60 | 0 | By-product of drinking water disinfection | | TTHM | 59335 WW HARLEAUX BLVD | 2022 - 2023 | 4 | 3.8 - 4.6 | ppb | 80 | 0 | By-product of drinking water chlorination | | TTHM | ANTHONY ST @ BAYOU ROAD | 2022 - 2023 | 4 | 3.3 - 4.7 | ppb | 80 | 0 | By-product of drinking water chlorination | | TTHM | HACKBERRY AT MCCLUNG | 2022 - 2023 | 9 | 3.9 - 8.7 | ppb | 80 | 0 | By-product of drinking water chlorination | | TTHM | ISLAND GOLF COURSE | 2022 - 2023 | 4 | 3.2 - 4.5 | ppb | 80 | 0 | By-product of drinking water chlorination | | | | | | | | | |
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|  |  |  |  |  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Source Secondary Contaminants | Collection Date | Highest Value | Range | Unit | SMCL | | ALUMINUM | 5/15/2022 | 0.07 | 0 - 0.07 | MG/L | 0.2 | | CHLORIDE | 5/15/2022 | 194 | 20 - 194 | MG/L | 250 | | IRON | 5/15/2022 | 1.91 | 0.01 - 1.91 | MG/L | 0.3 | | MANGANESE | 5/15/2022 | 0.13 | 0.03 - 0.13 | MG/L | 0.05 | | PH | 5/15/2022 | 8.65 | 6.27 - 8.65 | PH | 8.5 | | SULFATE | 5/15/2022 | 27 | 4 - 27 | MG/L | 250 | | | |  |  |  |
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|  |  |  |  |  |  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Treated Secondary Contaminants | Collection Date | Highest Value | Range | Unit | SMCL | | IRON | 10/29/2023 | 0.03 | 0 - 0.03 | MG/L | 0.3 | | MANGANESE | 10/29/2023 | 0.03 | 0 - 0.03 | MG/L | 0.05 | | |  |  |  |
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| | *Unregulated contaminants are those that don’t yet have a drinking water standard set by USEPA.  The purpose of monitoring for these contaminants is to help USEPA decide whether the contaminants should have a standard.* | | | | | | --- | --- | --- | --- | --- | | Unregulated Contaminants | Collection Date | Average Concentration | Range | Unit | | Lithium | 2023 | 20.1 | 19.2-20.2 | ppb |  |  | | --- | | ++++++++++++++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). | | | | | | | | | | | | |
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| |  | | --- | | 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. | | Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer. | | While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems. | | | | | | | | | | | | |
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|  | |  | | --- | | 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 PLAQUEMINE 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. | | | | | | | | | | | | |
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