**2024 Consumer Confidence Report for Appleby WSC**

Annual Water Quality Report for the period of January 1 to December 31, 2024

This report is intended to provide you with important information about your Drinking water and the efforts made by Appleby WSC to provide safe drinking water.

For more information regarding this report contact:

Matt Barrett

(936) 569-9782

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en españ, favor de llamar al telefono (936) 569-9782

**Appleby WSC is a Groundwater System**

**Public Participation Opportunities**

Appleby WSC

202 Deen Street

Nacogdoches, TX 75965

Appleby WSC Office

2nd Tuesday of each month 7:00 AM

***Where Does My Water Come From?***

The drinking water used by Appleby Water Supply Corp. is obtained from ground water sources. We have eight wells in the Wilcox aquifer. The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this Consumer Confident Report. This source water assessment information is available on Texas Drinking Water Watch at <http://dww2.tceq.texas.gov/DWW/>. For more information on source water assessments and protection efforts at our system, please contact us.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system’s business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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>.

***Emergency/Supplemental Water Sources***

We have an interconnect with the City of Nacogdoches and receive water from them in emergency situations and occasionally to supplement our supply. We purchased approximately 0 gallons of water from Nacogdoches in 2024. Most of their water comes from Lake Nacogdoches, and some from wells in the Wilcox Aquifer. Water quality information may be obtained by calling The City of Nacogdoches Water Utilities Department at 936-564-5046.

**Information about your Drinking Water**

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 the 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.

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 potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

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 storm water 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 storm water 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 storm water 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 prescribes 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.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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>.

**Information about Source Water Assessments**

The TCEQ completed an assessment of our source water and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for our water system are based on this susceptibility and previous sample data. Any detection of these contaminants may be found in this Consumer Confident Report. For more information on source water assessments and protection efforts at our systems, contact: Matt Barrett at (936) 569-9782.

**Definitions and Abbreviations**

Definitions and Abbreviations The following tables contain scientific terms and measures, some of which may require explanation.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Action Level Goal (ALG) The level of a contaminant in drinking water below which there is no known or expected risk to health ALGs allow for a margin of safety.

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

Level 1 Assessment: A Level 1 assessment is 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 Level 2 assessment is 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.

Maximum Contaminant Level or MCL: 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.

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of

safety.

Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary

for control of microbial contaminants.

Maximum residual disinfectant level goal or 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

MFL million fibers per liter (a measure of asbestos)

mrem: millirems per year (a measure of radiation absorbed by the body)

na: not applicable.

NTU nephelometric turbidity units (a measure of turbidity)

pCi/L picocuries per liter (a measure of radioactivity)

ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

ppq parts per quadrillion, or picograms per liter (pg/L)

ppt parts per trillion, or nanograms per liter (ng/L)

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

**Appleby Water Supply Corporation**

**Lead and Copper**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Lead and Copper** | **Date Sampled** | **MCLG** | **Action Level (AL)** | **90th Percentile** | **# Sites Over AL** | **Units** | **Violation** | **Likely Source of Contamination** |
|  |  |  |  |  |  |  |  |  |
| **Copper** | 04/20/2023 | 1.3 | 1.3 | 0.38 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
|  |  |  |  |  |  |  |  |  |
| **Lead** | 04/20/2023 | 0 | 15 | 2.4 | 0 | ppb | N | Corrosion of household plumbing systems; Erosion of natural deposits. |

**2024 Water Quality Test Results**

2021

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Disinfection By-Products** | **Collection Date** | **Highest Level Detected** | **Range of Individual Samples** | **MCLG** | **MCL** | **Units** | **Violation** | **Likely Source of Contamination** |
|  |  |  |  |  |  |  |  |  |
| **Haloacetic Acids (HAA5)** | 2024 | 45 | 33.1 – 52.5 | No goal for the total | 60 | ppb | N | By-product of drinking water disinfection. |

\*The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Total Trihalomethanes (TTHM)** | 2024 | 59 | 48.5 – 66.1 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Inorganic Contaminants** | **Collection Date** | **Highest Level Detected** | **Range of Individual Samples** | **MCLG** | **MCL** | **Units** | **Violation** | **Likely Source of Contamination** |
|  |  |  |  |  |  |  |  |  |
| **Barium** | 2024 | 0.028 | 0.023 - 0.028 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
|  |  |  |  |  |  |  |  |  |
| **Fluoride** | 2024 | 0.453 | 0.0918 - 0.453 | 4 | 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
|  |  |  |  |  |  |  |  |  |
| **Nitrate [measured as Nitrogen]** | 2024 | 0.211 | 0.0168 - 0.211 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

2021

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Radioactive Contaminants** | **Collection Date** | **Highest Level Detected** | **Range of Individual Samples** | **MCLG** | **MCL** | **Units** | **Violation** | **Likely Source of Contamination** |
|  |  |  |  |  |  |  |  |  |
| **Combined Radium 226/228** | 02/01/2022 | 1.5 | 1.5 - 1.5 | 0 | 5 | pCi/L | N | Erosion of natural deposits. |

**Disinfectant Residual**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Disinfectant Residual** | **Year** | **Average Level** | **Range of Levels Detected** | **MRDL** | **MRDLG** | **Unit of Measure** | **Violation**  **(Y/N)** | **Source in Drinking Water** | **Type of Disinfectant** |
|  | 2024 | 0.93 | .20 – 2.20 | 4 | 4 | ppm | N | Water additive used to control microbes | Free Chlorine |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Maximum Contaminant Level Goal** | **Total Coliform Maximum Contaminant Level** | **Highest No. of Positive** | **Fecal Coliform or E. Coli Maximum Contaminant Level** | **Total No. of Positive E. Coli or Fecal Coliform Samples** | **Violation** | **Likely Source of Contamination** |
|  |  |  |  |  |  |  |
| 0 | 1 positive monthly sample | 0 | 0 | 0 | N | Naturally present in the environment |

**Coliform Bacteria**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Synthetic organic contaminants including pesticides and herbicides** | **Collection Date** | **Highest Level Detected** | **Range of Individual Samples** | **MCLG** | **MCL** | **Units** | **Violation** | **Likely Source of Contamination** |
| **Dalapon** | 2024 | 1.29 | 0 – 1.29 | 200 | 200 | ppb | N | Runoff from herbicide used on rights of way |
| **Di (2-ethylhexyl) phthalate** | 2024 | 1.5 | 0 – 1.5 | 0 | 6 | ppb | N | Discharge from rubber and chemical factories |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Volatile Organic Contaminants** | **Collection Date** | **Highest Level Detected** | **Range of Individual Samples** | **MCLG** | **MCL** | **Units** | **Violation** | **Likely Source of Contamination** |
| **Toluene** | 2024 | 0.00078 | 0 – 0.00078 | 1 | 1 | ppm | N | Discharge from petroleum factories |

**City of Nacogdoches**

**2024 Water Quality Test Results**

2024

2024

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Inorganic Contaminants** | **Collection Date** | **Highest Level Detected** | **Range of Individual Samples** | **MCLG** | **MCL** | **Units** | **Violation** | **Likely Source of Contamination** |
|  |  |  |  |  |  |  |  |  |
| **Barium** | 2024 | 0.039 | 0.039 - 0.039 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
|  |  |  |  |  |  |  |  |  |
| **Fluoride** | 2024 | 0.7 | 0.713 - 0.713 | 4 | 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |

**Turbidity**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Level Detected** | **Limit (Treatment Technique)** | **Violation** | **Likely Source of Contamination** |
| **Highest single measurement** | 0.27 NTU | 1 NTU | N | Soil runoff |
| **Lowest monthly % meeting limit** | 100% | 0.3 NTU | N | Soil runoff |

**Total Organic Carbon**

The percentage of Total Organic Carbon (TOC) removal was measured each month, and the system met all TOC removal requirements set, unless a TOC

violation is noted in the violation section.

**Violations**

|  |  |  |  |
| --- | --- | --- | --- |
| **Public Notice Rule** | | | |
| The Public Notification Rule helps to ensure that customers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., boil water emergency). | | | |
| **Violation Type** | **Violation Begin** | **Violation End** | **Violation Explanation** |
| PUBLIC NOTICE RULE LINKED TO VIOLATION | 12/01/2022 | 07/17/2024 | We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations. |
| PUBLIC NOTICE RULE LINKED TO VIOLATION | 06/01/2024 | 07/17/2024 | We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations. |