

# CYPRESSWOOD UTILITY DISTRICT

## PUBLIC WATER SYSTEM ID 1010432

### 2015 ANNUAL WATER QUALITY REPORT

(CONSUMER CONFIDENCE REPORT)

The Board of Directors of Cypresswood Utility District (Cypresswood U.D.) is pleased to give you this report about our drinking water based on 2015 test results. The District is required by the Federal Safe Drinking Water Act to send the report each year. The content of this report is specified by the State of Texas. If you have any difficulties in reading or understanding the report, please call our operator at the number below. **The Board believes that the most important information contained in the report is that the District's water supply was found to meet the requirements set by the state and federal governments for drinking water. Additionally, the Board is pleased to share that the District continues to merit Superior recognition from the Texas Commission on Environmental Quality.**

Please call the District's operator, Environmental Development Partners (EDP), at **832-467-1599** or toll free at **1-866-467-1599** if you have any questions regarding this report.

This report is a summary of the quality of the water we provide our customers, was created by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented on the following page. The U.S. EPA requires water systems to test for up to 97 contaminants. We hope the information helps you become more knowledgeable about what is in your drinking water.

#### En Español

**Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en español, favor de llamar a Cypresswood U.D. al telefono 832-467-1599 o marque gratis al 1-866-467-1599.**

#### Public Participation Opportunities

The Board meets regularly each month typically on the 4<sup>th</sup> Monday of the month at 6:00 P.M at 18190 Mantana, Spring, Texas. For information regarding the date, time and location of the meeting call **832-467-1599** or toll free at **1-866-467-1599** or send your comments to:

Cypresswood Utility District  
P.O. Box 690928  
Houston, Texas 77269-0928

Data contained in this report were collected in 2015 except where noted. The State of Texas allows us to monitor for some substances less than once per year because the concentration of these substances does not change frequently. Although the Water District samples your water for up to 125 substances we are listing only those substances that were detected in your water. For additional information about your water quality please contact the District operator at **832-467-1599** or toll free at **1-866-467-1599**

In the water loss audit submitted to the Texas Water Development Board for the time period of Jan-Dec 2015, our system lost an estimated 7,388,105 gallons of water. Overall, our system accounted for approximately 95% of the water produced during that period. If you have any questions about the water loss audit please call the District operator at **832-467-1599**.

#### Where Do We Get Our Drinking Water?

Cypresswood U.D. water treatment facilities obtained their water from three groundwater wells that draw water from the Evangeline Aquifer as well as surface water from the North Harris County Regional Water Authority. The wells are located at 18201 Mantana, 18111 Kuykendahl and 4107 Evening Trail in Harris County. The third well listed is within the boundaries of the Harris Co. WC & ID No. 132, which jointly owns and operates the wells. An aquifer is a porous underground formation (such as sand and gravel) that is saturated with water. The Texas Commission on Environmental Quality 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 detections of these contaminants may be found in this Consumer Confident Report. Further details about sources and source-water assessments are available in the Drinking Water Watch at <http://dww2.tceq.texas.gov/DWWW/>. For more information on source water assessments and protection efforts please call our District operator's office at **832-467-1599** Monday through Friday, 8:00 AM to 5:00 PM.

#### All Drinking Water May Contain Contaminants

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices. 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 EPA's Safe Drinking Water Hotline at 1-800-426-4791.

#### Interconnected Water Supplies

While the water for Cypresswood Utility District is predominantly supplied by wells owned by the District, the District can receive water from adjoining water districts during emergency situations and maintenance periods. The adjoining Districts are Harris Co. M.U.D. #275 and Klein P.U.D. The water source for these districts is from ground water wells drawing water from the same aquifer as Harris Co. W.C. & I.D. No. 132 and surface water from the North Harris County Regional Water Authority. For additional information about the water quality for these systems please call the District operator at **832-467-1599** or toll free at **1-866-467-1599**.

#### Protecting the Water You Drink

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Federal Food and Drug Administration Agency regulations establish limits for contaminants in bottled water, which must provide the same protection for public health as public water systems.

#### Special Notice:

Required language for ALL community public water supplies:

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; those 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 provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at 1-800-426-4791.

#### Water Sources

The sources of drinking water (both tap 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 can dissolve naturally-occurring minerals and radioactive material, and pick up substances resulting from the presence of animals or 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 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.

#### Secondary Constituents

Contaminants may be found in drinking water that may cause taste, color, or odor problems. The taste, color and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These types of problems are not necessarily causes for health concerns. Therefore, secondary constituents are not required to be reported in this document but they may greatly affect the appearance and taste of your water. For more information on taste, odor, or color of drinking water, please contact the District operator at **832-467-1599** or toll free at **1-866-467-1599**.

# Cypresswood Utility District Public Water System ID 1010432 2015 Water Quality Report.

## Regulated Contaminants

| Year        | Contaminant (Units)                 | MCLG | MCL | WCID 132 Max | Range Min. / Max. | C.U.D. Max | Range Min. / Max. | Violation | Source of Contaminant  |
|-------------|-------------------------------------|------|-----|--------------|-------------------|------------|-------------------|-----------|--|
| 2013 - 2015 | Barium (ppm)                        | 2    | 2   | 0.0746       | 0.0658 / 0.0746   | 0.0549     | 0.0549 / 0.0658   | No        | Discharge of drilling wastes & from metal refineries; Erosion of natural deposits.           |
| 2012 - 2015 | Fluoride (ppm)                      | 4    | 4   | 0            | 0 / 0             | 0.12       | 0 / 0.12          | No        | Erosion of natural deposits; Water additive which promotes strong teeth.                     |
| 2015        | Nitrate(measured as nitrogen) (ppm) | 10   | 10  | 0.84         | 0.20 / 0.84       | 0.57       | 0.01 / 0.57       | No        | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits. |
| 2015        | Nitrite(measured as nitrogen) (ppm) | 1    | 1   | 0.09         | 0.0 / 0.09        | 0.08       | 0.0 / 0.08        | No        | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits. |
| 2015        | Simazine (ppm)                      | 4    | 4   | 0            | 0 / 0             | 0.17       | 0.14 / 0.17       | No        | Herbicide runoff.  |
| 2014        | Beta Photon Emitters (pCi/L)        | 0    | 50* | 5.3          | 5.3 / 5.3         | 4.7        | 0 / 4.7           | No        | Decay of natural and man-made deposits.  |
| 2014        | Combined Radium 226/228 (pCi/L)     | 0    | 5   | 1            | 1 / 1             | 1          | 1 / 1             | No        | Erosion of natural deposits.   |

\*EPA considers 50 pCi/L to be the level of concern for beta particles.

## Maximum Residual Disinfectant Level

| Year | Disinfectant (Units)      | MRDLG | MRDL | Annual Average | Range of Detections | Violation | Source of Contaminant                  |
|------|---------------------------|-------|------|----------------|---------------------|-----------|--|
| 2015 | Chloramine Residual (ppm) | 4     | 4    | 2.75           | 1.02 / 4.20         | No        | Disinfection used to control microbes. |

## Disinfection By-Products

| Year | Contaminant (Units)                | MCL | WCID 132 Level Detected | Range Min. / Max. | C.U.D. Level Detected | Range Min. / Max. | Violation | Typical Source                             |
|------|------------------------------------|-----|-------------------------|-------------------|-----------------------|-------------------|-----------|--|
| 2015 | Total Trihalomethanes (TTHM) (ppb) | 80  | 24.5                    | 6.9 / 24.5        | 29.6                  | 4.2 / 29.6        | No        | By-product of drinking water chlorination. |
| 2015 | Haloacetic Acids (HAA5) (ppb)      | 60  | 22.4                    | 6.7 / 22.4        | 27.8                  | 7.8 / 27.8        | No        | By-product of drinking water chlorination. |

## Turbidity

| Year | Contaminant (Units) | Turbidity Limit | Highest Single Measurement | Lowest % of Samples Meeting Limit | Violation | Typical Source |
|------|---------------------|-----------------|----------------------------|-----------------------------------|-----------|----------------|
| 2015 | Turbidity (NTU)     | 0.3             | 0.22                       | 100%                              | No        | Soil runoff.   |

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbiological growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

## Lead & Copper

| Year | Contaminant (Units) | Action Level | 90 <sup>th</sup> Percentile | Number Exceeding Action Level | Violation | Source of Contaminant   |
|------|---------------------|--------------|-----------------------------|-------------------------------|-----------|---|
| 2013 | Lead (ppb)          | 15           | 2.17                        | 0                             | No        | Corrosion of household plumbing; Erosion of natural deposits.   |
| 2013 | Copper (ppm)        | 1.3          | 0.0444                      | 0                             | No        | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives. |

Required Additional Health Information on Lead 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. This water supply 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>.

## Definitions and Abbreviations

|              |  |
|--------------|--|
| <b>AL</b>    | <b>Action Level:</b> The concentration of contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.   |
| <b>ALG</b>   | <b>Action Level Goal:</b> 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   |
| <b>MCL</b>   | <b>Maximum Contaminant Level:</b> 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.  |
| <b>MCLG</b>  | <b>Maximum Contaminant Level Goal:</b> The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.  |
| <b>MRDL</b>  | <b>Maximum Residual Disinfectant Level:</b> 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.                              |
| <b>MRDLG</b> | <b>Maximum Residual Disinfectant Level Goal:</b> The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants. |
| <b>Avg</b>   | <b>Average:</b> Regulatory compliance with some MCLs is based on running average of monthly samples.   |

### Definitions

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

|              |  |
|--------------|--|
| <b>ppm</b>   | <b>parts per million:</b> milligrams per liter or parts per million – or one ounce in 7,350 gallons of water     |
| <b>ppb</b>   | <b>parts per billion:</b> micrograms per liter or parts per million – or one ounce in 7,350,000 gallons of water |
| <b>NTU</b>   | Nephelometric Turbidity Units  |
| <b>na</b>    | not applicable   |
| <b>MFL</b>   | million fibers per liter (a measure of asbestos)   |
| <b>pCi/L</b> | picocuries per liter, (a measure of radioactivity)   |
| <b>ppm</b>   | parts per million or milligrams per liter (mg/l)   |
| <b>ppb</b>   | parts per billion or micrograms per liter  |
| <b>ppt</b>   | parts per trillion, or nanograms per liters  |
| <b>ppq</b>   | parts per quadrillion, or picograms per liter  |