

# CERTIFICATION of DELIVERY CONSUMER CONFIDENCE REPORT

*For Calendar year 2011*

**Public Water System(PWS) Name :** SAWS WOODS OF SPRING BRANCH  
**PWS Id Number :** TX0460196

I certify that the community water system named above has distributed the Consumer Confidence Report (CCR) for the calendar year of **2011** by mail or direct delivery to bill-paying customers. I certify that the above system has additionally made an adequate good faith effort to reach non bill-paying consumers by the appropriate methods indicated below. I certify that the report has been made available to non-English-speaking customers. Further, I certify that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to TCEQ.

**Date of Delivery:** \_\_\_\_\_

**Certified by:** Name (print)\_\_\_\_\_

Title\_\_\_\_\_

Phone #\_\_\_\_\_ Date\_\_\_\_\_

**Signature**\_\_\_\_\_

**Check all items that apply.** This system **must** use at least one direct delivery method

\_\_\_\_\_ Our CCR was distributed by mail or other direct delivery(such as doorknob hangers).

\_\_\_\_\_ Specify other delivery methods: \_\_\_\_\_

**Check all items that apply.** Use at least one good faith method to reach people who do not get bills.

\_\_\_\_\_ "Good faith" efforts were used to reach non-bill paying consumers.

Those efforts included the following (*check the method(s) that you used*):

\_\_\_\_\_Posting the CCR on the Internet at www. \_\_\_\_\_

\_\_\_\_\_Mailing the CCR to people who get mail within the service area, but who do not pay water bills

\_\_\_\_\_Advertising the availability of the CCR in news media

\_\_\_\_\_Publishing of CCR in local newspaper

\_\_\_\_\_Posting the CCR in public places

\_\_\_\_\_Delivering multiple copies to single bill address serving several persons

\_\_\_\_\_Delivering multiple copies to community organizations

Systems serving 100,000 or more people must post your CCR on a publicly-accessible

Internet site address:

www. \_\_\_\_\_ (other systems are encouraged to provide this)

**Mail and postmark by July 1** (we recommend but do not require certified mail)

- This completed and signed form; and
- The completed Consumer Confidence Report that you sent to your customers:

**TO: Texas Commission on Environmental Quality**

**PDWS - Mail Code 155, Attn: CCR**

**12100 Park 35 Circle**

**Austin, Texas 78753**

(Alternate Address: TCEQ/PDW, MC-155, Attn: CCR, PO Box 13087, Austin TX 78711-3087)



# 2011 Annual Drinking

## Water Quality Report

*(Consumer Confidence Report)*

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### SAWS WOODS OF SPRING BRANCH

Phone Number: 210- 233-2318

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#### **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 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 infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800) 426-4791.

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#### **Public Participation Opportunities**

**Date:**

**Time:**

**Location:**

**Phone Number:**

To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call us.

#### **OUR DRINKING WATER IS REGULATED**

This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

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#### **Source of 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 pickup 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 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.

#### **En Español**

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. **(210) 233-2318** -para hablar con una persona bilingüe en español.

# Where do we get our drinking water?

The source of drinking water used by SAWS WOODS OF SPRING BRANCH is purchased surface water from Canyon Lake. A Source Water Susceptibility Assessment for your drinking water sources(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus source water protection strategies. Some of this source water assessment information is available on Texas Drinking Water Watch at <http://dww.tceq.state.tx.us/DWW/>. For more information on source water assessments and protection efforts at our system, please contact us.

## ALL drinking water may contain contaminants

When drinking water meets federal standards there may not be any health 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 (1-800-426-4791).

## Secondary Constituents

Many constituents (such as calcium, sodium, or iron) which are often found in drinking water, can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

## Required Additional Health Information for 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>.

## Abbreviations

- NTU - Nephelometric Turbidity Units
- MFL - million fibers per liter (a measure of asbestos)
- pCi/L - picocuries per liter ( a measure of radioactivity)
- ppm - parts per million, or milligrams per liter (mg/L)
- ppb - parts per billion, or micrograms per liter
- ppt - parts per trillion, or nanograms per liter
- ppq - parts per quadrillion, or picograms per liter

## Definitions

|  |  |
|--|--|
| 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 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 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. |
| Maximum residual disinfectant level or 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.                        |
| Avg:   | Regulatory compliance with some MCLs are based on running annual average of monthly samples.   |
| ppm:   | milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.  |
| ppb:   | micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.  |
| na:  | not applicable.  |
| Definitions:                                       | The following tables contain scientific terms and measures, some of which may require explanation.   |

## Maximum Residual Disinfectant Level

| Year | Disinfectant            | Average Level | Minimum Level | Maximum Level | MRDL | MRDLG | Unit of Measure | Source of Disinfectant                 |
|------|-------------------------|---------------|---------------|---------------|------|-------|-----------------|--|
| 2011 | Chlorine Residual, Free | 1.3           | 0.8           | 1.8           | 4.0  | <4.0  | ppm             | Disinfectant used to control Microbes. |

### Total Coliform

Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

**Total Coliform:** REPORTED MONTHLY TESTS FOUND NO TOTAL COLIFORM BACTERIA.

**Fecal Coliform:** REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

## Lead and Copper

### Definitions:

**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.

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

| Lead and Copper | Collection Date | MCLG | Action Level (AL) | 90 <sup>th</sup> Percentile | # Sites over (AL) | Units | Violation | Likely Source of Contamination  |
|-----------------|-----------------|------|-------------------|-----------------------------|-------------------|-------|-----------|---|
| Copper          | 2009            | 1.3  | 1.3               | 0.044                       | 0                 | Ppm   | N         | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead            | 2009            | 0    | 15                | 2.5                         | 0                 | Ppb   | N         | Corrosion of household plumbing systems; Erosion of natural deposits.                                   |

# Regulated Contaminants

| Disinfectants and Disinfection By-Products | Collection Date | Highest Level Detected | Range of Levels Detected | MCL G | MCL | Units | Violation | Likely Source of Contamination             |
|--|-----------------|------------------------|--------------------------|-------|-----|-------|-----------|--|
| <b>Haloacetic Acids (HAA5)*</b>            | 2011            | 10.7                   | 10.7 - 10.7              | 0     | 60  | ppb   | N         | By-product of drinking water chlorination. |

|                                      |      |      |             |   |    |     |   |  |
|--------------------------------------|------|------|-------------|---|----|-----|---|--|
| <b>Total Trihalomethanes (TThm)*</b> | 2011 | 55.4 | 55.4 - 55.4 | 0 | 80 | ppb | N | By-product of drinking water chlorination. |
|--------------------------------------|------|------|-------------|---|----|-----|---|--|

| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCL G | MCL | Units | Violation | Likely Source of Contamination   |
|------------------------|-----------------|------------------------|--------------------------|-------|-----|-------|-----------|--|
| <b>Barium</b>          | 2008            | 0.0242                 | 0.0242 - 0.0242          | 0     | 2   | ppm   | N         | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.                                |
| <b>Chromium</b>        | 2008            | 7.69                   | 7.69 - 7.69              | 0     | 100 | ppb   | N         | Discharge from steel and pulp mills; Erosion of natural deposits.  |
| <b>Fluoride</b>        | 2009            | 2.2                    | 2.2 - 2.2                | 0     | 4.0 | ppm   | N         | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |

|                                       |                        |                               |                                 |              |            |              |                  |  |
|---------------------------------------|------------------------|-------------------------------|---------------------------------|--------------|------------|--------------|------------------|--|
| <b>Nitrate [measured as Nitrogen]</b> | 2011                   | 0.052                         | 0.052 - 0.052                   | 0            | 10         | ppm          | N                | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |
| <b>Radioactive Contaminants</b>       | <b>Collection Date</b> | <b>Highest Level Detected</b> | <b>Range of Levels Detected</b> | <b>MCL G</b> | <b>MCL</b> | <b>Units</b> | <b>Violation</b> | <b>Likely Source of Contamination</b>  |
| <b>Gross Beta Particles</b>           | 2009                   | 8.5                           | 8.5 - 8.5                       | 0            | 50         | pCi/L        | N                | Decay of natural and man-made deposits.  |
| <b>Gross Alpha</b>                    | 2009                   | 2.8                           | 2.8 – 2.8                       | 0            | 15         | pCi/L        | N                | Erosion of natural deposits.   |

**\*Note:** “The MCL for beta particles is 4 mrem/year, EPA considers 50 pCi/L to be the level of concern for beta particles.”

**Turbidity**

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

| <b>Contaminant</b> | <b>Collection Date</b> | <b>Highest Single Measurement</b> | <b>Lowest Monthly % of Samples Meeting Limits</b> | <b>Turbidity Limits</b> | <b>Unit of Measurement</b> | <b>Violation</b> | <b>Source of Contamination</b> |
|--------------------|------------------------|-----------------------------------|---|-------------------------|----------------------------|------------------|--------------------------------|
| <b>Turbidity</b>   | 2011                   | 0.21                              | 100.00  | 0.3                     | NTU                        | N                | Soil Runoff                    |

**Secondary and Other Constituents not Regulated (No associated adverse health effects)**

| Constituent                                 | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL  | Units | Violation | Likely Source of Contamination   |
|---|-----------------|------------------------|--------------------------|------|------|-------|-----------|--|
| <b>Aluminum</b>                             | 2008            | ND                     | ND                       | 0    | .05  | ppm   | N         | Abundant Naturally Occurring element.  |
| <b>Bicarbonate</b>                          | 2007            | 242                    | 242 – 242                | 0    | NA   | ppm   | N         | Corrosion of carbonate rocks such as limestone.  |
| <b>Calcium</b>                              | 2008            | 42.5                   | 42.5 – 42.5              | 0    | NA   | ppm   | N         | Abundant Naturally Occurring element.  |
| <b>Chloride</b>                             | 2007            | 210                    | 210 – 210                | 0    | 300  | ppm   | N         | Abundant Naturally Occurring element; used in water purification; byproduct of oil field activity. |
| <b>Hardness as Ca/Mg</b>                    | 2007            | 261                    | 261 – 261                | 0    | 300  | ppm   | N         | Naturally Occurring Calcium and Magnesium.   |
| <b>Magnesium</b>                            | 2008            | 36.1                   | 36.1 – 36.1              | 0    | NA   | ppm   | N         | Abundant naturally occurring element.  |
| <b>Nickel</b>                               | 2008            | .00216                 | .00216 - .00216          | 0    | NA   | ppm   | N         | Erosion of natural deposits.   |
| <b>pH</b>                                   | 2007            | 7.79                   | 7.79 – 7.79              | >7.0 | >7.0 | Units | N         | Measure of corrosives in water.  |
| <b>Sodium</b>                               | 2008            | 203                    | 203 – 203                | 0    | NA   | ppm   | N         | Erosion of natural occurring element.  |
| <b>Sulfate</b>                              | 2007            | 186                    | 186 – 186                | 0    | 300  | ppm   | N         | Naturally occurring; common industrial byproduct; byproduct of oil field activity.                 |
| <b>Total Alkalinity as CaCO<sub>3</sub></b> | 2007            | 242                    | 242 – 242                | 0    | NA   | ppm   | N         | Naturally occurring soluble mineral salts.   |
| <b>Total Dissolved Solids</b>               | 2007            | 857                    | 857                      | 0    | 1000 | ppm   | N         | Total dissolved mineral constituents in water.   |
| <b>Zinc</b>                                 | 2008            | .346                   | .346 - .346              | 0    | 5    | ppm   | N         | Moderately abundant naturally occurring element; used in the metal industry.                       |