



# 2013 Annual Drinking Water Quality Report

(Consumer Confidence Report)

## Frognot WSC

Phone Number 972-752-5798

Annual Water Quality Report for the period of January 1 to December 31, 2013

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

**The source of drinking water used by Frognot WSC is Ground Water.**

### For more information regarding this report contact:

**Robert Todd**

**(972) 752-5798**

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, favor de llamar al telefono 972-752-5798.

### Public Participation Opportunities

Date: Monthly

Time: 8:30 a.m.

Location: First Baptist Church Blue Ridge  
316 SH 78  
Blue Ridge, Texas 75424

## Sources 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 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 your source water and results indicate that at 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 Confidence Report. For more information on source water assessments and protection efforts at our system, contact Robert Todd.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: <http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=>

Further details about sources and source water assessments are available in Drinking Water Watch at the following URL: <http://dww.tceq.texas.gov/DWW/>

| Source Water Name | Type of Water          | Report Status | Location   |
|-------------------|------------------------|---------------|------------|
| CR 670 / FM 981   | 3.6 MI E of Blue Ridge | GW            | Water Well |
| Hwy 78 / CR 578   | Hwy 78 / CR 578        | GW            | Water Well |
| CR 825            | CR 825                 | GW            | Water Well |

#### Water Quality Test Results

|   |  |
|---|--|
| Definitions:                                      | The following tables contain scientific terms and measures, some of which may require explanation.   |
| Avg   | Regulatory compliance with some MCLs are based on running annual average of monthly samples  |
| 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 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 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)   |
| ppm   | Milligrams per liter or parts per million – or one ounce in 7,350 gallons of water   |
| 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   |
| ppt   | Parts per trillion, or nanograms per liter (ng/L)  |
| ppq   | Parts per quadrillion, or pictograms per liter (pg/L)  |

#### Lead and Copper

Definitions:

Action Level Goal (ALG): The level of 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 | Date Sampled | MCLG | Action Level (AL) | 90 <sup>th</sup> Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination  |
|-----------------|--------------|------|-------------------|-----------------------------|-----------------|-------|-----------|---|
| Copper          | 8/31/2011    | 1.3  | 1.3               | 0.147                       | 0               | ppm   | N         | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead            | 8/31/11      | 0    | 15                | 0.831                       | 1               | ppb   | N         | Corrosion of household plumbing systems; Erosion of natural deposits.                                   |

**2013 Frognot WSC – 0430035 - Regulated Contaminants**

| Disinfectants and Disinfection By-Products | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG                  | MCL | Units | Violation | Likely Source of Contamination             |
|--|-----------------|------------------------|--------------------------|-----------------------|-----|-------|-----------|--|
| Haloacetic Acids (HAA5)*                   | 2013            | 1.4                    | 1.4 – 1.4                | No goal for the total | 60  | ppb   | N         | By-product of drinking water chlorination. |
| Total Trihalomethanes (TThm)*              | 2013            | 14.2                   | 10.3 – 14.2              | No goal for the total | 80  | ppb   | N         | By-product of drinking water chlorination. |

| Inorganic Contaminants         | Collection Date | Highest Single Sample | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination  |
|--------------------------------|-----------------|-----------------------|--------------------------|------|-----|-------|-----------|---|
| Barium                         | 4/27/2011       | 0.00779               | 0.00779 – 0.00779        | 2    | 2   | ppm   | N         | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.                     |
| Chromium                       | 4/27/2011       | 0.814                 | 0.814 – 0.814            | 100  | 100 | ppb   | N         | Discharge from steel and pulp mills; Erosion of natural deposits.   |
| Fluoride                       | 1-19-2012       | 1.2                   | 1.01 – 1.2               | 4    | 4.0 | ppm   | N         | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum |
| Nitrate (measured as Nitrogen) | 2013            | 0.06                  | 0.04 – 0.06              | 10   | 10  | ppm   | N         | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.                    |

| Radioactive Contaminants | Collection Date | Highest Single Sample | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--------------------------|-----------------|-----------------------|--------------------------|------|-----|-------|-----------|--------------------------------|
| Combined Radium 226/228  | 1-19-2012       | 1                     | 1 - 1                    | 0    | 5   | pCi/L | N         | Erosion of natural deposits.   |

**2013 Frognot WSC – 0430035 – Disinfectant Residual Table**

| Disinfectant | Year | Average Level | Minimum Level | Maximum Level | MRDL | MRDLG | Unit of Measure | Violation | Likely Source of Contamination           |
|--------------|------|---------------|---------------|---------------|------|-------|-----------------|-----------|--|
| Chlorine     | 2013 | 1.88          | 1.40          | 2.7           | 4    | 4     | ppm             |           | Water additive used to control microbes. |

**Violations Table**

| Chlorine   |                 |               |   |
|--|-----------------|---------------|---|
| Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort. |                 |               |   |
| Violation Type   | Violation Begin | Violation End | Violation Explanation   |
| Disinfectant Level Quarterly Operating Report (DLQOR)  | 1/1/2/13        | 3/31/2013     | We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. |
| Disinfectant Level Quarterly Operating Report (DLQOR)  | 4/1/2013        | 6/30/2013     | We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. |